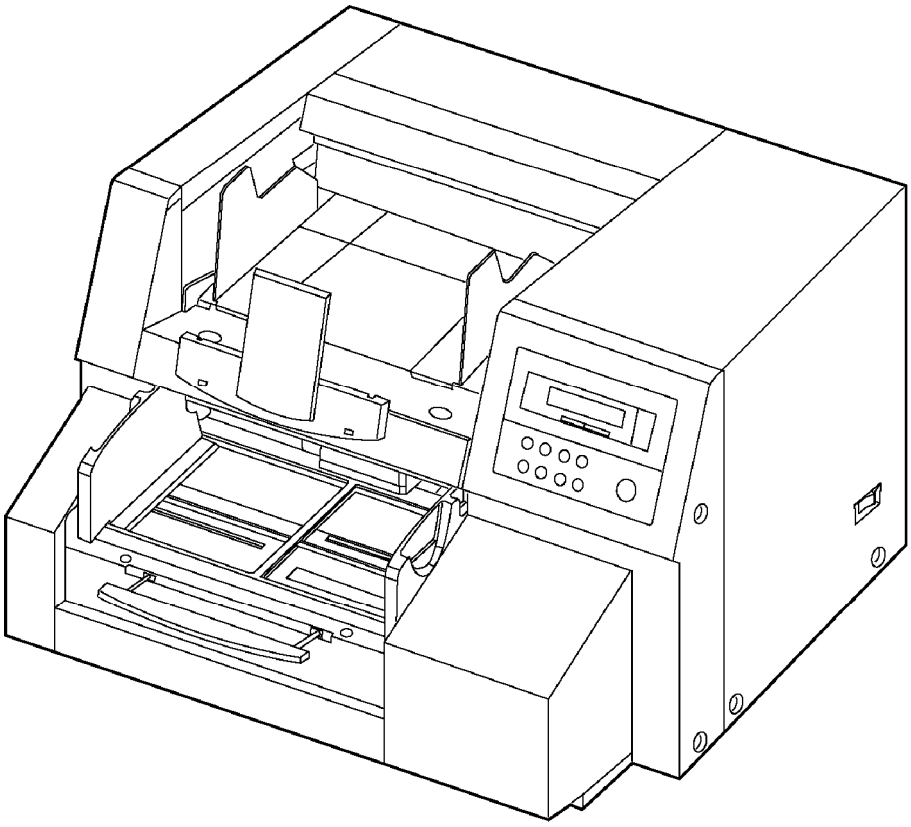
ORDER NO. KM70108670C0

G14

Service Manual

High Speed Color Scanner

KV-SS905C



1

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. GENERAL PRECAUTIONS

1.1. Safety Precautions

1. Before servicing, unplug the power cord to prevent electrical shock hazard.
2. When replacing parts, user only manufacture's recommended components for safety.
3. Check the condition of power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, perform the following electrical tests to prevent shock hazard.

1.2. Electrical Tests

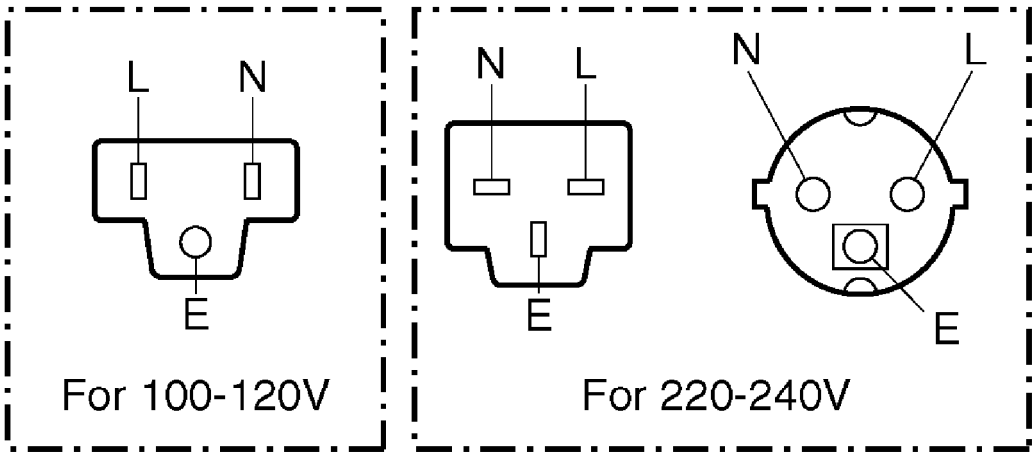
1. Unplug the power cord and check for continuity between the earth ground connection on the plug and the Interface Board Cover. There should be zero ohm resistance.
2. With the unit unplugged, short the AC live-neutral of the plug with a jumper wire.
3. Turn ON the power switch.
4. Measure the resistance value with an ohmmeter between the jumpered AC plug and an exposed metal cabinet part, such as screwheads, etc. (Refer to Fig.2)

Note
Some exposed parts may be isolated from the chassis by design. They read infinity.

5. If the measurement is less than 1M Ω , a possibility for electric shock may exit.

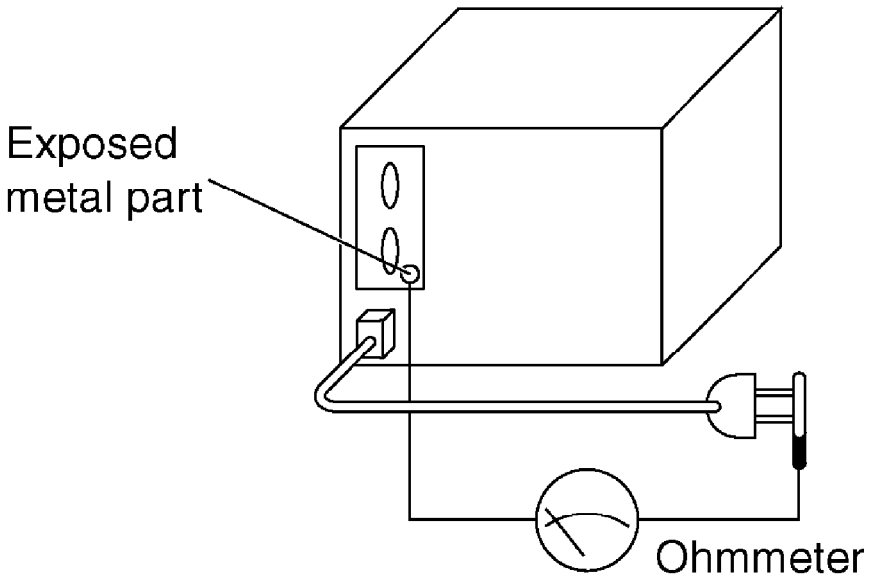
Note
This hazardous condition must be corrected before the unit is returned to the end user.

Fig. 1



L:Live, N:Neutral, E:Earth Ground

Fig. 2



Resistance > Approx. 1M ohm

1.3. For Service Technicians

ICs and LSIs are vulnerable to static electricity. When repairing, the following precautions will help to prevent recurring malfunctions.

1. Cover the plastic parts with aluminum foil.

2. Ground the soldering irons.

3. Use a conductive mat on the worktable.

4. Do not grasp IC or LSI pins with bare fingers.

2. SPECIFICATIONS

Items			Specifications	
anner	Scanning face		Duplex	
	Sensor type		Front side: 3-line (R, G, B) color CCD	
			Back side: 3-line (R, G, B) color CCD	
	Readout speed		Simplex scanning	Approx. 98 (Binary) / 97 (JPEG) ppm. *1
			Duplex scanning	Approx. 174 (Binary) / 174 (JPEG) ipm. *1
	Resolution		Monochrome scanning	100-600 dpi (1 dpi step)
			Color scanning	100-400 dpi (1 dpi step)
			Multi Stream™ scanning	Binary 300dpi, Color 150dpi
			Main-scanning direction and sub-scanning direction are same resolution.	
	Image output		Binary, Grayscale, Color, Multi-stream (Binary and Color)	
	Tonal gradation		Dither (64 step gradation)	
			Error diffusion (64 step gradation)	
	Image control		Image emphasis, Automatic threshold, Dynamic threshold, Autom separation, Multi-Color dropout (Red, Green, Blue), Mirror image, Reverse image, Noise reduction	
	Other functions		Patch code detection (Kodak patch 2, 3, T, Control sheet), Double feed detection	
	Paper	Size	48×70 to 298×420 mm (1.9”×2.75” to 11.7”×17”)	
		Weight	Single paper feed: 30 to 157g/m^2 (8 to 42 lbs.) Continuous paper feed: 50 to 157 g/m^2 (13 to 42 lbs.) Business card : Thicker than 127g/m^2 (34lbs)	
	Amount of Memory		64MB Standard (SO DIMM) 1 DIMM Slot for an additional memory	
	Power requirement		AC 100-120 V, 50/60 Hz	
			AC 220-240 V, 50/60 Hz	
	Power consumption		Scanning	3.0A (100-120V), 1.5A (220-240V)
			Stand-by	0.7A (100-120V), 0.5A (220-240V)
			Sleep	0.1A (100-120V), 0.06A (220-240V)
vironment	Operating		Temperature	15 to 30°C (59°F to 86°F)
			Humidity	30%RH to 80%RH
	Storage		Temperature	0 to 35°C (32°F to 95°F)
			Humidity	10%RH to 80%RH

Items		Specifications
ıit	Dimensions (Width× Depth×Height)	627×546×415 mm (24.7×21.5×16.3in.)
	Weight	52 kgf (114.4lbs)
cessories		Installation manual, Maintenance manual, AC cable, Blower, Clean paper, CD (ISIS driver, TWAIN driver, Capture software (RTIV), Operation manual, P.I.E. manual, RTIV manual Control sheet imag
ıtion		Roller exchange kit (KV-SS012), Roller cleaning paper (KV-SS03), -Imprinter (KV-SS05), Ink cartridge (KV-SS06), Lamp Module (Fron (KV-SS052), Lamp Module (Back) (KV-SS053)

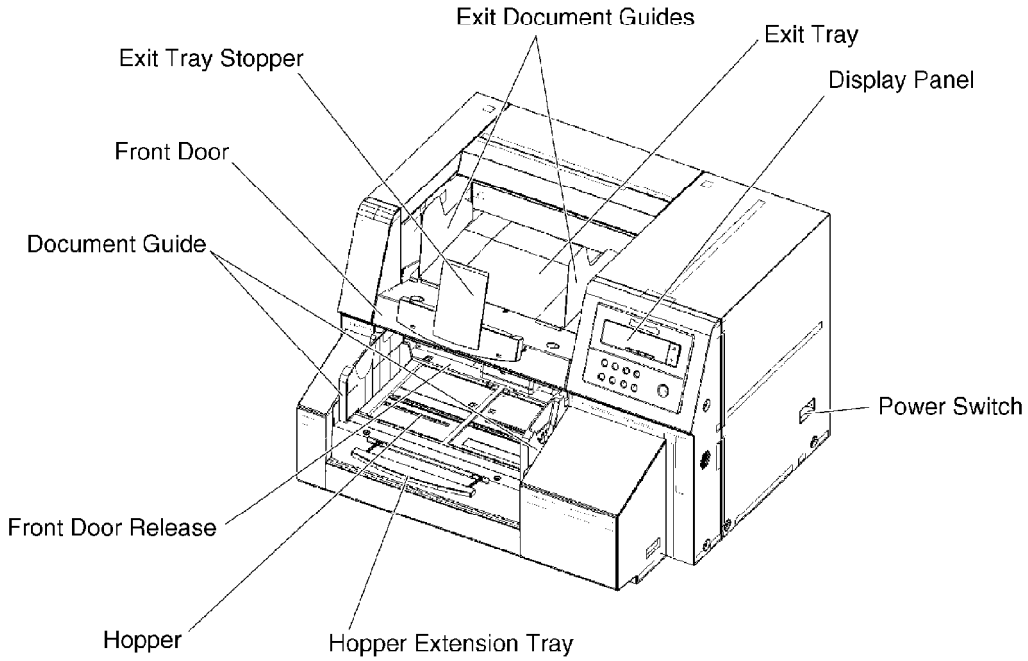
Note

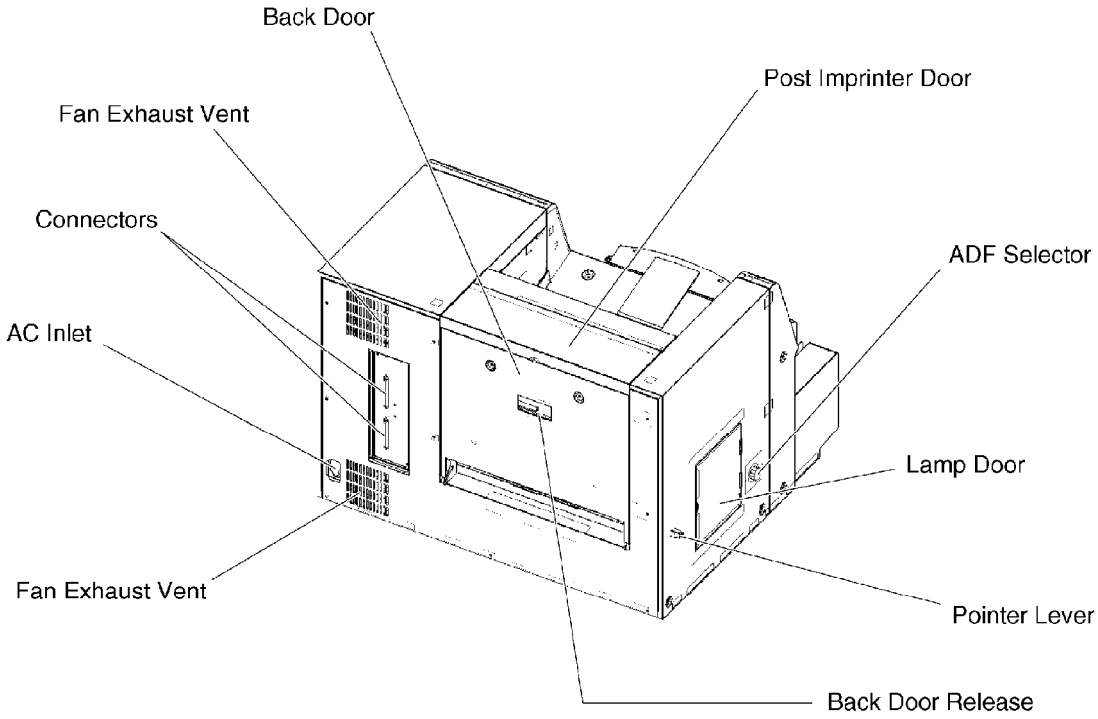
***1 : These values depend on the following scanning conditions.**

Document size : Letter
Feed direction : Portrait
Scanning resolution : 200dpi

- **Multi Stream™ is TM of Pixel Translations (a division of Action Point, Inc.).**

3. COMPONENT IDENTIFICATION

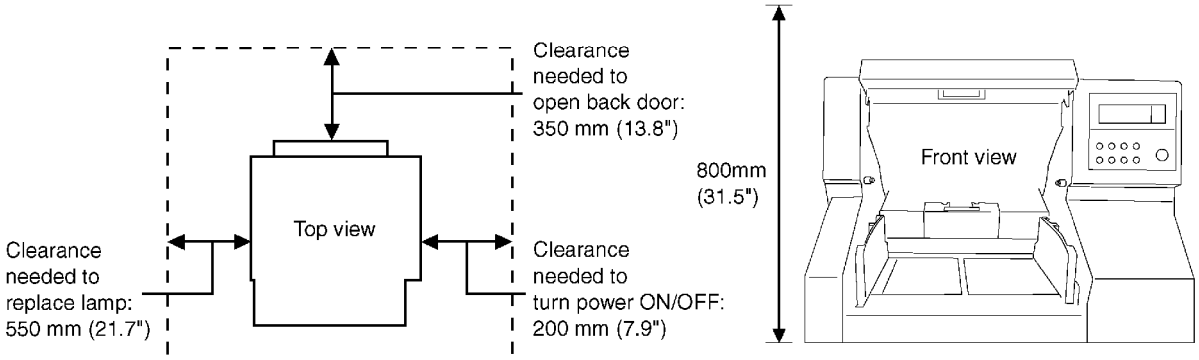




4. INSTALLATION

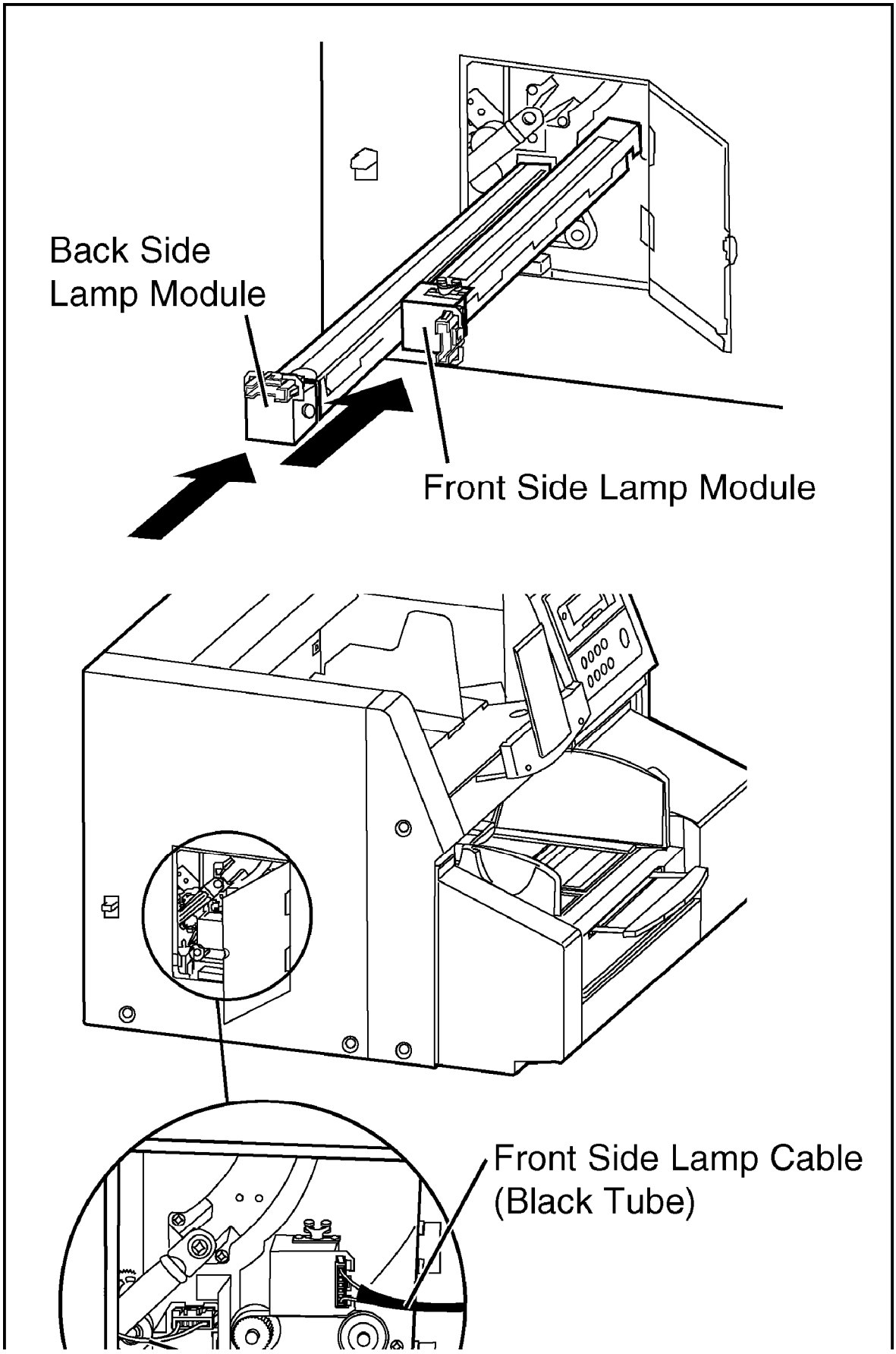
4.1. Minimum Space Requirements

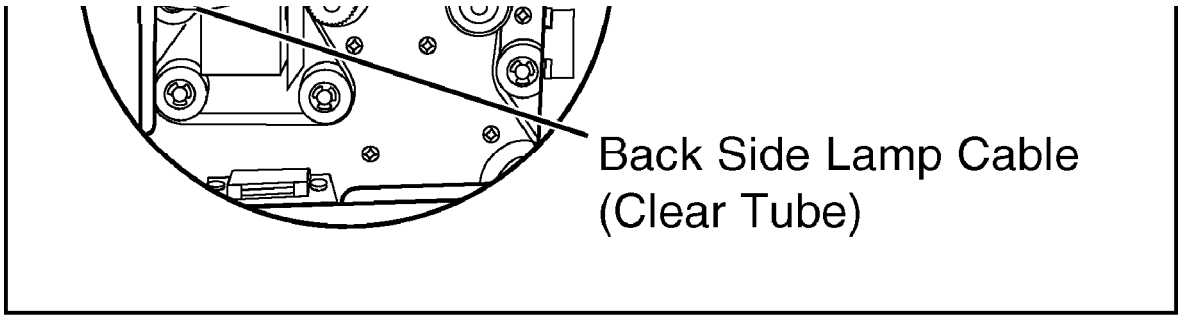
Be sure to maintain the recommended space requirements for proper ventilation.



4.2. Installing the Lamp

1. **Open the Lamp Door.**
2. **Insert the Front Side Lamp Module in the Front Side Lamp Module Slot until the “click” is heard.**
3. **Insert the Back Side Lamp Module in the Back Side Lamp Module Slot until the “click” is heard.**
4. **Connect each Lamp Cable to each connector.**
5. **Close the Lamp Door.**

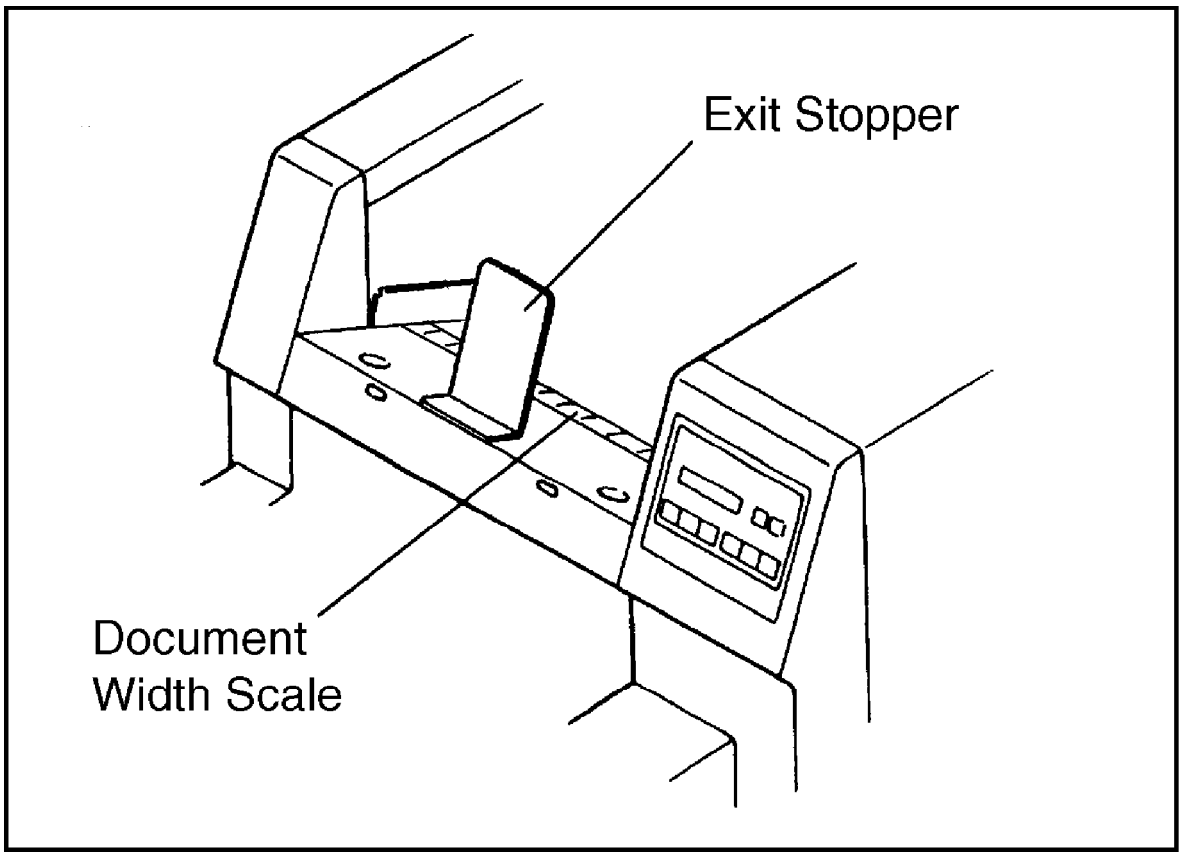

Back Side
Lamp Module
Front Side Lamp Module
Front Side Lamp Cable
(Black Tube)



4.3. Installing the Exit Stopper

1. Position the Exit Stopper against the Document Width Scale. (Secure the guides in place.)

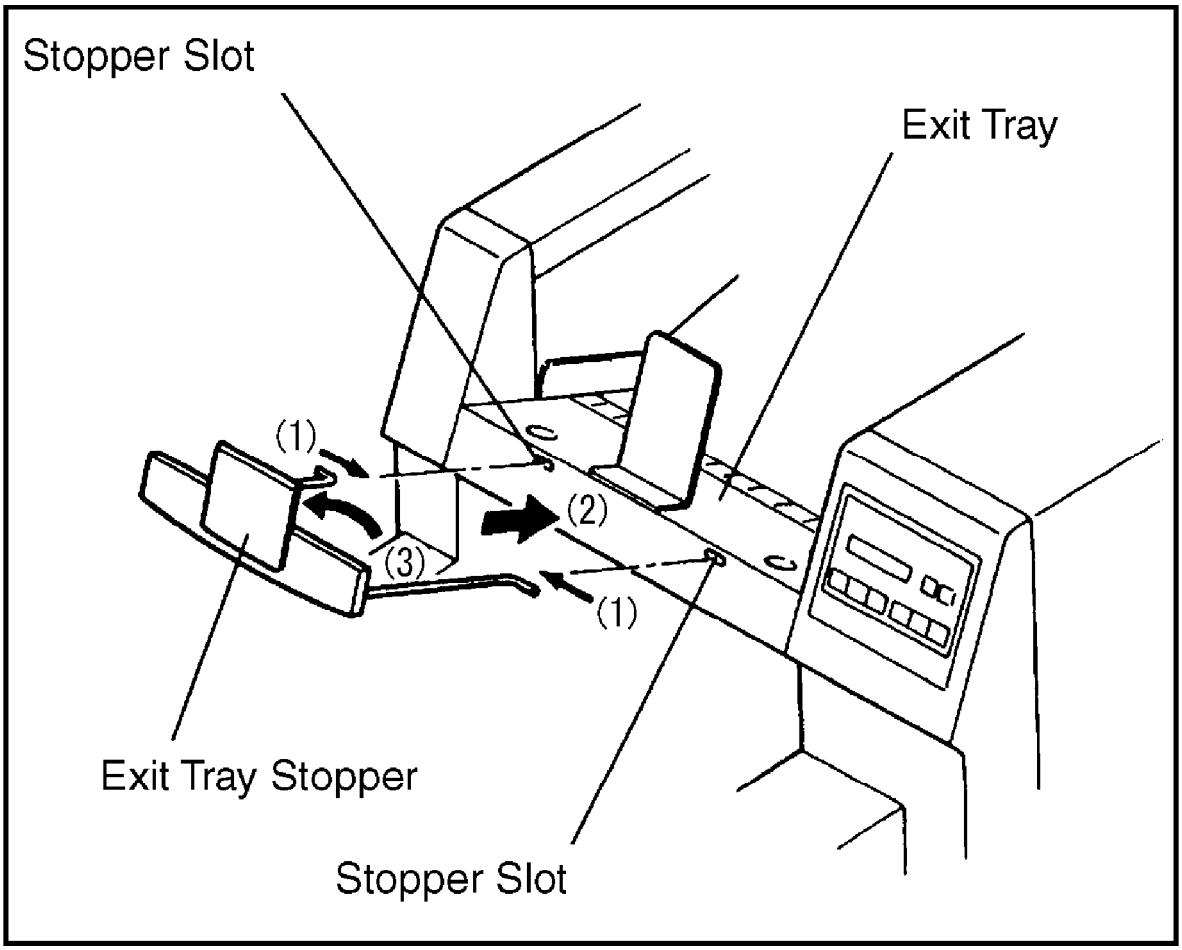
- Use the Exit Stopper when needed.



4.4. Installing the Exit Tray Stopper

1. Squeeze the ends of the Exit Tray Stopper metal guides slightly together, and insert them into the Stopper Slots of the Exit Tray. Then pull up the plastic

part of Exit Tray Stopper. (Install the Exit Tray Stopper in the sequence of (1) through (3).)



4.5. DIMM Module Extension

A maximum of 256MB extended memory may be required depending on the combination of the paper size, resolution and gray scale mode.To determine how much extended memory is required, refer to the section 4.6 “Additional Memory Size each scanning mode (MB)”.

*** Recommended DIMM**

- **JEDEC-standard 168pin, dual in-line memory module (DIMM)**
- **Non buffered**
- **Single +3.3V±0.3V power supply**
- **Frequency/CAS Latency : 100MHz/CL=2, 133MHz/CL=2, 133MHz/CL=3**
- **64MB, 128MB or 256MB may be used.**

(Reference) DIMM module which has been evaluated using this scanner

- **Manufacturer: DELKIN DEVICES**
  1. **Model No.: DM168-064Y3Q488-10S2P (64MB)**
  2. **Model No.: DM168-064Y3Q446-10D2P (64MB)**
  3. **Model No.: DM168-128Y3Q448-10D4P (128MB)**

Note
Originally, I/F Board (SCSI Board) has 64MB memory as the standard memory.

4.6. Additional Memory Size each scanning mode (MB)

4.6.1. Simplex / Grayscale 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	64
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Ledger	0	0	0	0	0	64
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

4.6.2. Duplex / Grayscale 8bit

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	64	128
A4	0	0	0	0	0	64
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	64	64
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Ledger	0	0	0	0	64	128
Legal	0	0	0	0	0	64
Letter	0	0	0	0	0	64

4.6.3. Simplex / Binary

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	0
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Ledger	0	0	0	0	0	0
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

4.6.4. Duplex / Binary

Size	Resolution (dpi)					
	100	200	300	400	500	600
A3	0	0	0	0	0	0
A4	0	0	0	0	0	0
A5	0	0	0	0	0	0
A6	0	0	0	0	0	0
B4 (JIS)	0	0	0	0	0	0
B5 (JIS)	0	0	0	0	0	0
B6 (JIS)	0	0	0	0	0	0
Ledger	0	0	0	0	0	0
Legal	0	0	0	0	0	0
Letter	0	0	0	0	0	0

4.6.5. Color (Simplex / Duplex)

Size	Resolution (dpi)			
	100	200	300	400
A3	0 / 0	0 / 0	0 / 0	64 / 128
A4	0 / 0	0 / 0	0 / 0	0 / 64
A5	0 / 0	0 / 0	0 / 0	0 / 0
A6	0 / 0	0 / 0	0 / 0	0 / 0
B4 (JIS)	0 / 0	0 / 0	0 / 0	64 / 128
B5 (JIS)	0 / 0	0 / 0	0 / 0	0 / 64
B6 (JIS)	0 / 0	0 / 0	0 / 0	0 / 0
Ledger	0 / 0	0 / 0	0 / 0	64 / 128
Legal	0 / 0	0 / 0	0 / 0	0 / 64
Letter	0 / 0	0 / 0	0 / 0	0 / 64

4.6.6. Multi Stream (Binary 300dpi / Color 150dpi)

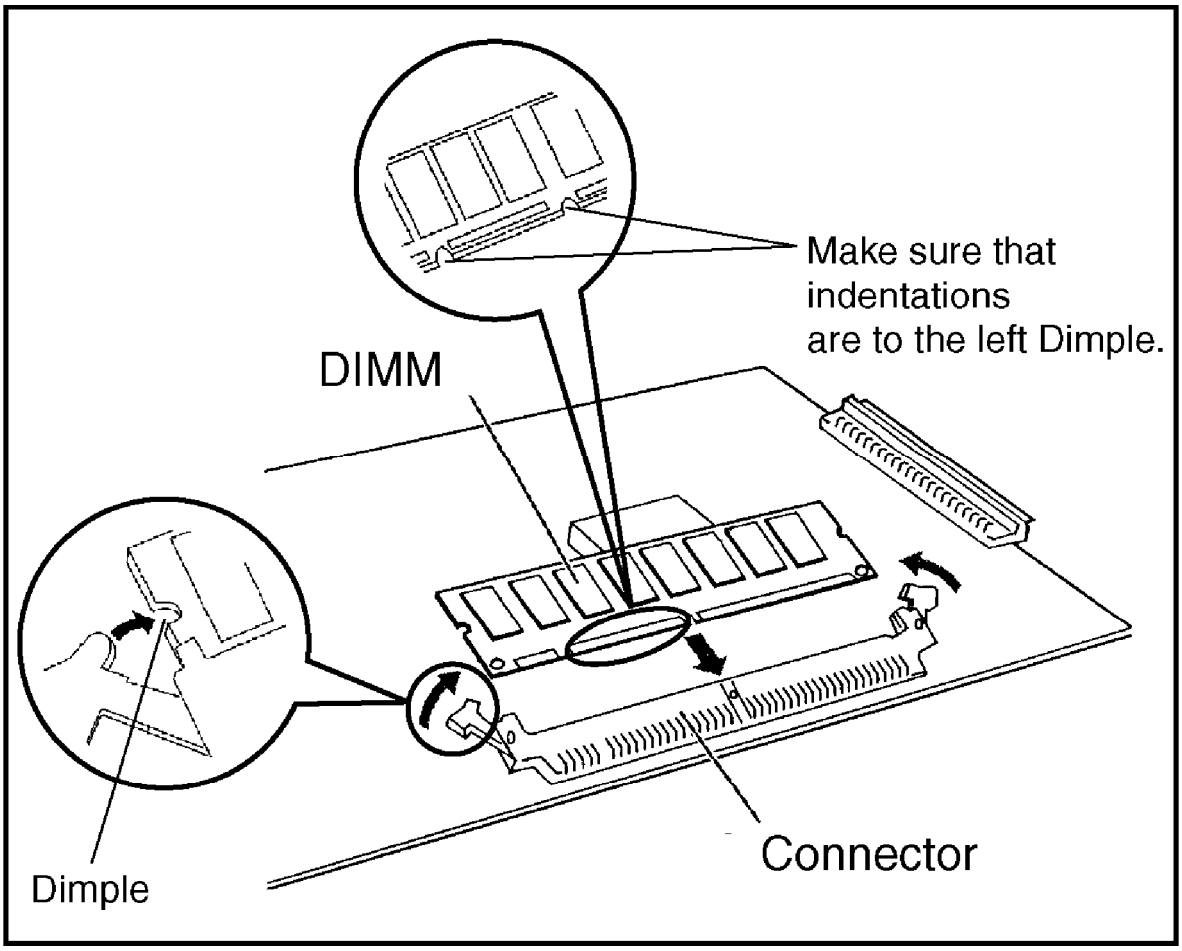
Size	Simplex	Duplex
A3	0 / 0	0 / 0
A4	0 / 0	0 / 0
A5	0 / 0	0 / 0
A6	0 / 0	0 / 0
B4 (JIS)	0 / 0	0 / 0
B5 (JIS)	0 / 0	0 / 0
B6 (JIS)	0 / 0	0 / 0
Ledger	0 / 0	0 / 0
Legal	0 / 0	0 / 0
Letter	0 / 0	0 / 0

4.7. Removing I/F Board (SCSI Board)

1. Make sure the Power is OFF.
2. Remove I/F Board (SCSI Board). (See 8.4.3)

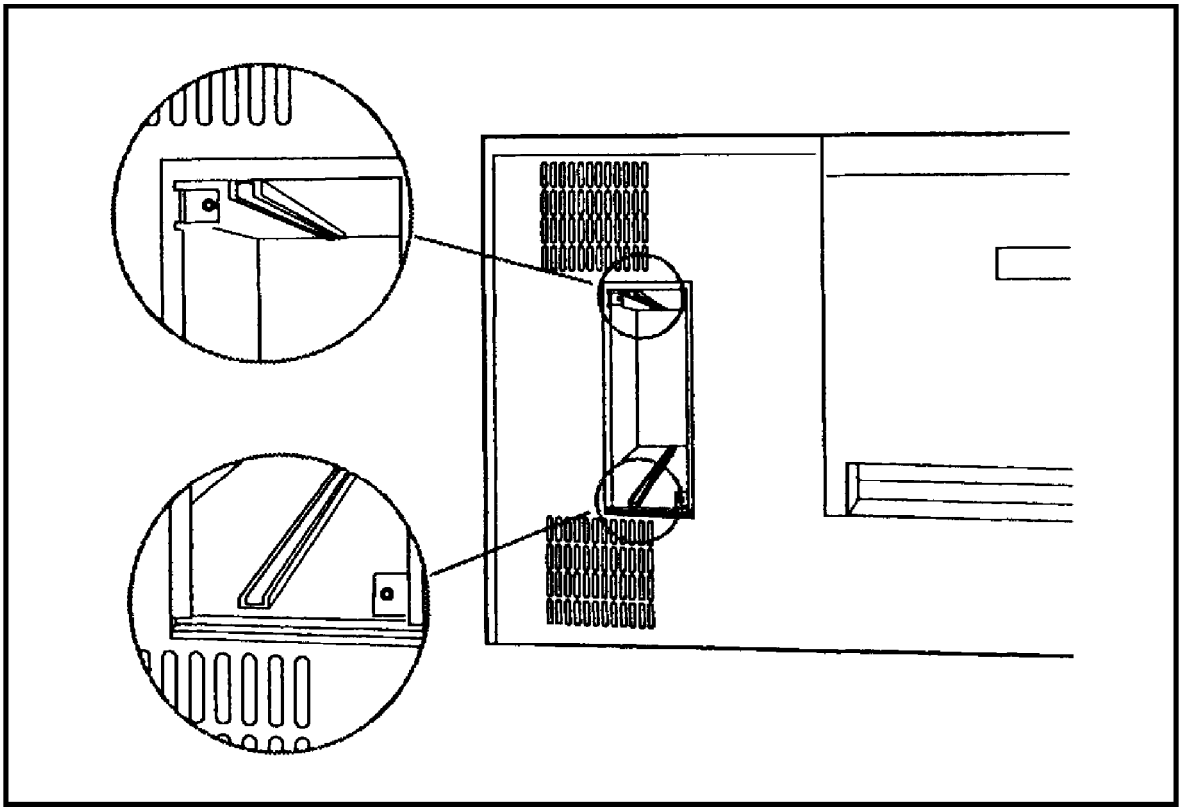
4.8. Installing DIMM Module

1. Insert the DIMM Module into the connector on the I/F Board (SCSI Board), and raise the tabs at the both ends of the connector until they lock into place.

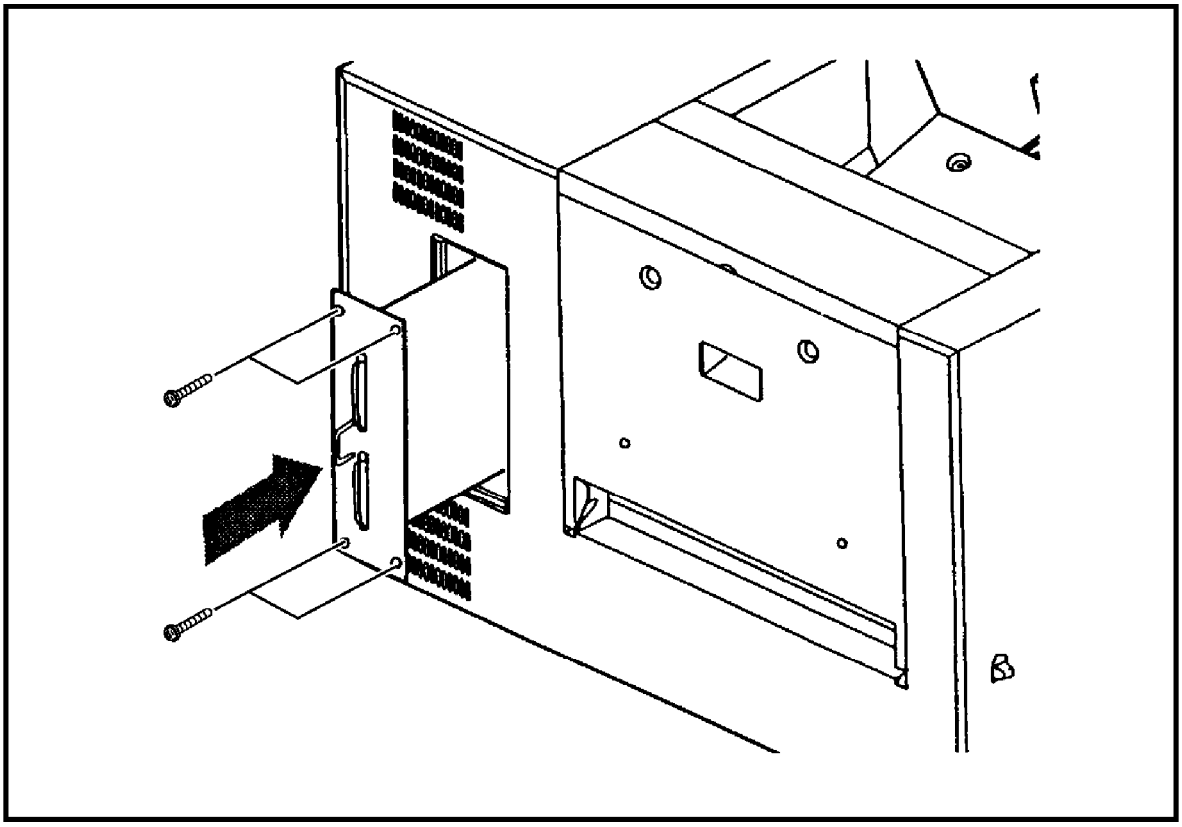


4.9. Installing the I/F Board (SCSI Board)

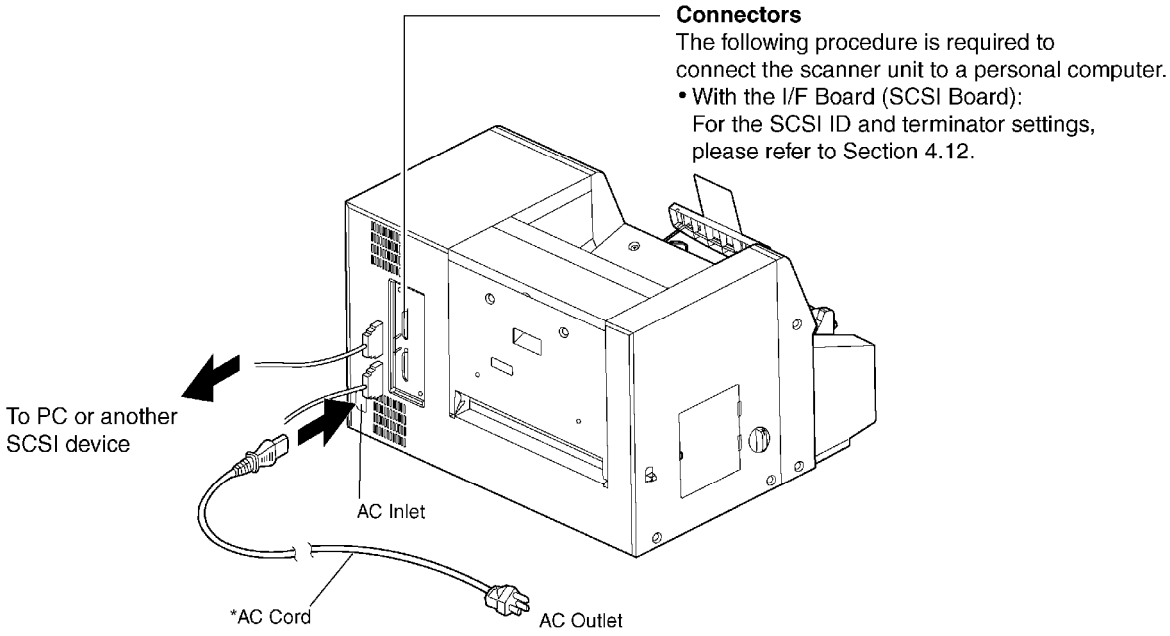
1. Insert the I/F Board (SCSI Board) into the scanner along the rails and push it in firmly unit it connects to the MOTHER Board.



2. Tighten all the screws.



4.10. Connecting the Unit to a Personal Computer


Connectors
The following procedure is required to connect the scanner unit to a personal computer.
• With the I/F Board (SCSI Board):
For the SCSI ID and terminator settings, please refer to Section 4.12.
To PC or another SCSI device
AC Inlet
*AC Cord
AC Outlet

Note
***AC cord shown on the figure is for AC100-120V.**

Caution

Set the Power Switch on the scanner and on the personal computer to OFF before connecting the interface cable. Use only the AC Cord that is supplied by manufacturer.

4.11. System Requirements

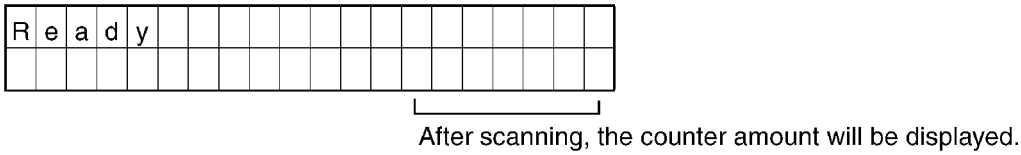
When using the scanner, the required personal computer conditions are as follows.

CPU	**Pentium 266MHz or higher (Pentium Ⅲ, 1GHz processor or higher is recommended.)**
Memory	**64 MB or higher (128 MB or higher is recommended.)**
OS	**Windows 95 / Windows 98 / Windows NT / Windows 2000 / Windows Me**
I/F Board (SCSI Board)	**Adaptec Board SCSI card AHA2940UW / 29160 / 39160 Series are recommended.**

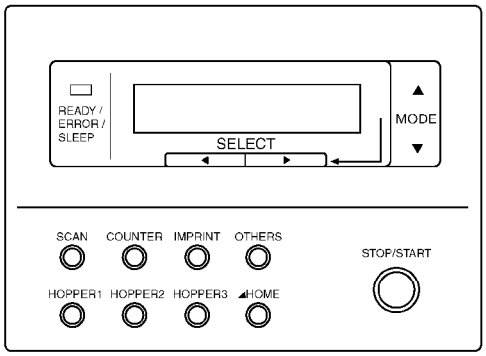
***The scanning speed differs depending on the personal computer's operating environment or application.**

4.12. LCD Settings

Before scanning the document, perform the preferred settings on the display. Setting information and scanner conditions are shown on the display.



Display Panel and Key



SCAN : Press to enter the scanning setting menu.

COUNTER : Press to enter the counter setting menu.

IMPRINT : Press to enter the imprinter setting menu.

OTHERS : Press to enter other setting menu.

HOPPER1 / HOPPER2 / HOPPER3 :
Press to change the hopper position.
Hopper capacity with 17lbs paper
Hopper1 : 1,000page setting
Hopper2 : 200page setting
Hopper3 : 1page setting

HOME : Press to exit from the setting section and return to the ready status.
Also, this function can change the display language.

STOP / START : Used to start or stop scanning a document.

LCD : Up to 40 characters can be displayed during scanning or setting

▲ : Press to advance to the next mode in the selected menu.

▼ : Press to return to the previous mode in the selected menu.

► : Press to advance to the next value in the selected mode.

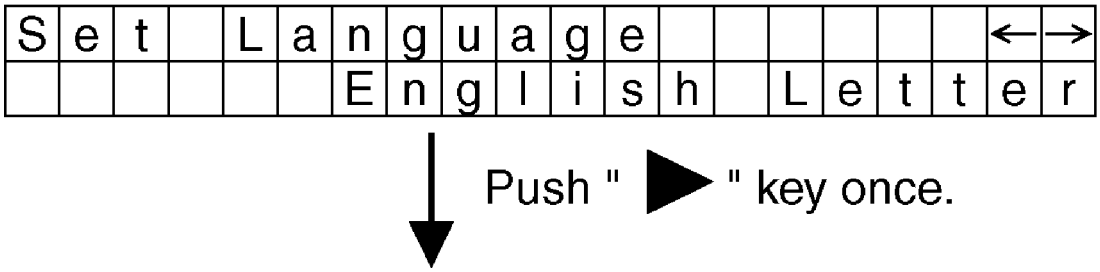
◄ : Press to return to the previous value in the selected mode.

LED (READY / ERROR / SLEEP) : Indicates the status of the scanner.
Green: Ready to scan or being scanning
Red: An error has occurred.
Green (flashing): Initializing
Orange (flashing): Sleeping

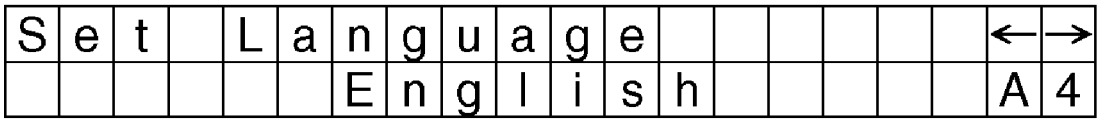
4.12.1. Setting the language

1. Turn the power on while pressing the HOME key.

Note
The language setting mode is selected automatically when the scanner's power is turned on for the first time after the scanner was purchased.



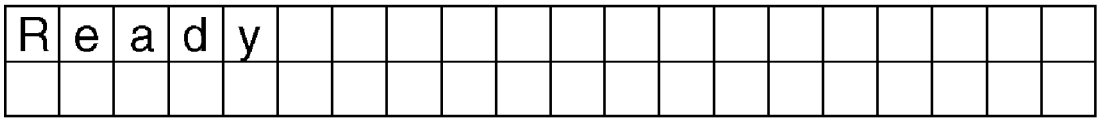
2. Use the [◀] key or [▶] key to select the “English Letter”, “English A4” or “Deutsch A4”, “ニホンゴA4”.



3. Press the HOME key.

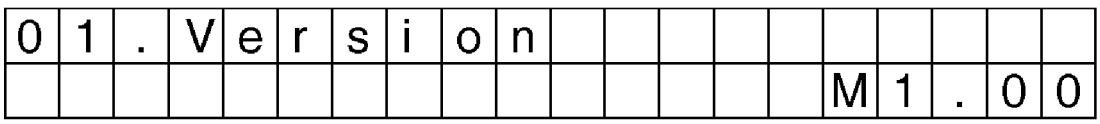
- The display will change to the select language, then the scanner will be ready.

- This setting will remain until it is changed to another setting.



4.12.2. Setting the SCSI ID and Terminator

1. Press the OTHERS key.



2. Press the MODE key.

Press the MODE key [▲] to display the SCSI ID, which is the fourth setting.

0	3	.	S	C	S	I		I	D									
														N	o	.		6

3. Press the SELECT [◀] key or [▶] key to select the desired setting.
The [▶] key moves to the next ID as shown below.
The [◀] key moves to the previous ID.

- Wide SCSI setting
(Disable)

→ 0 → 1 → 2 → 3 → 4 → 5 → 6 → 7 ┐

(Enable)

→ 0 → 1 → 2 → 3 → .....→13 → 14 → 15 ┐

0	3	.	S	C	S	I		I	D									
														N	o	.		7

4. Press the MODE key [▲] to switch to the terminator setting.
To activate the SCSI ID and Terminator settings, press the HOME key to return to "READY", then turn the unit off and on.

0	4	.	T	e	r	m	i	n	a	t	o	r							
													D	i	s	a	b	l	e

5. Press the SELECT [◀] key or [▶] key to select the desired setting.
The [▶] key moves to the next content as shown below.
The [◀] key moves to the previous content.

→ Disable ⟶ Enable ┐

0	4	.	T	e	r	m	i	n	a	t	o	r						
													E	n	a	b	l	e

Note

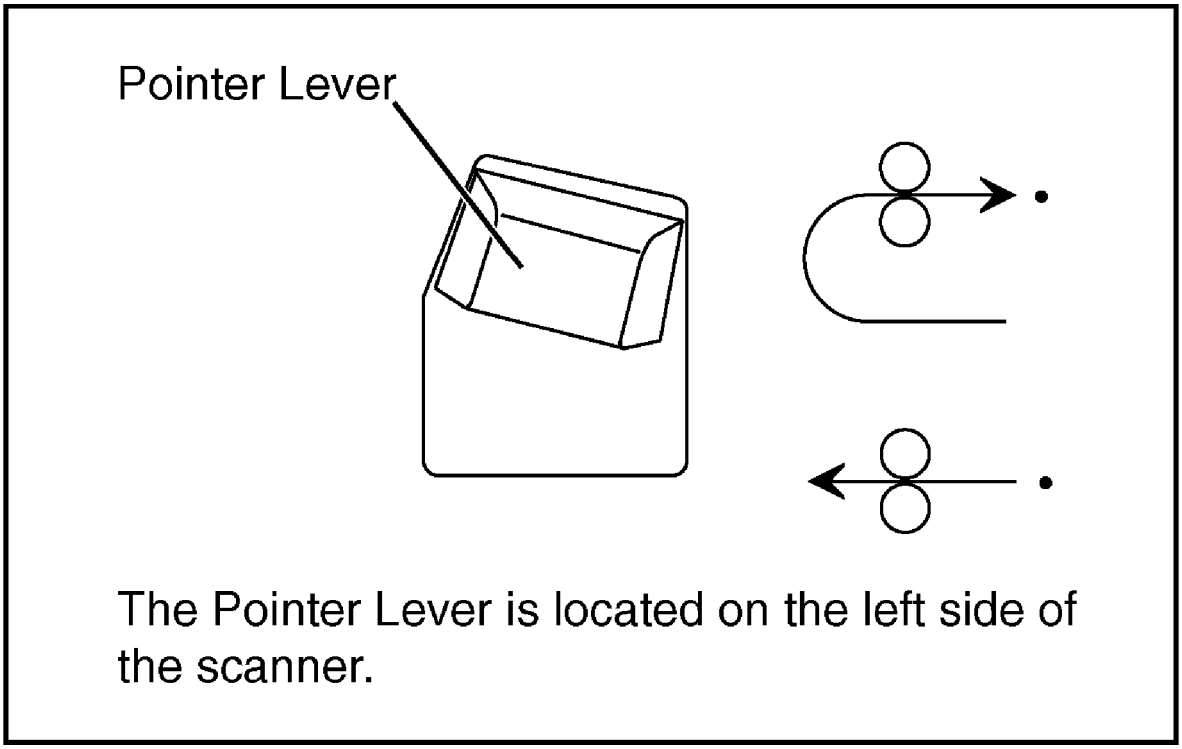
- **If the scanner is the last device in the SCSI chain, then the terminator should be set to "Enable". But, if the scanner is the last device and the power is turned off, then a terminator should be attached to the SCSI connector on the scanner.**
- **Before setting SCSI ID, set “Wide SCSI” condition (Enable or Disable).**
- **Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.**
- **Setting the terminator will be activated after turning the power OFF and turning it ON again.**

4.13. Others

4.13.1. Selecting the paper path for scanned document

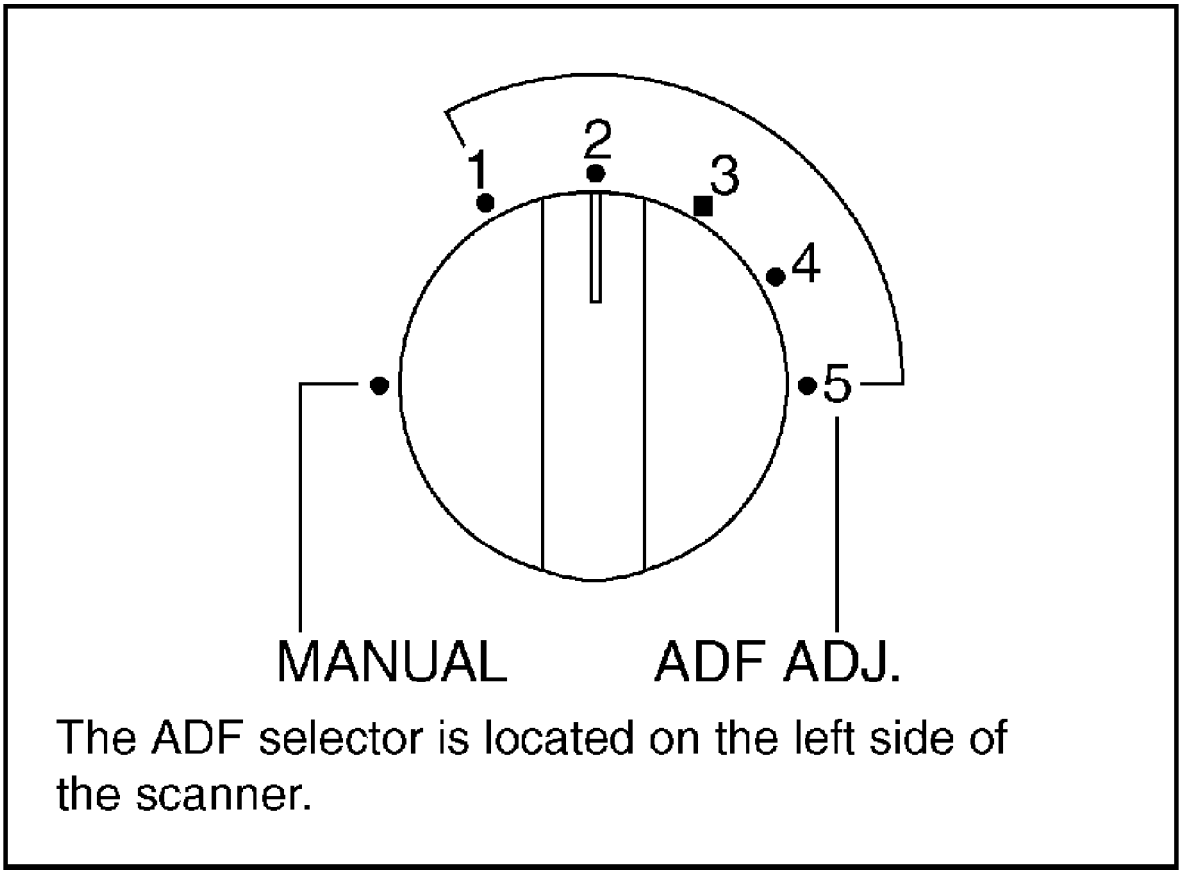
1. To have the paper exit the front, set the pointer lever to the upper side. The paper will exit through the front of the scanner.
To select the straight path pass through to the back, set the pointer lever to the lower side. The paper will exit through the rear of the scanner.

Note
When scanning documents with a thickness of 0.2 mm to 1 mm, set the pointer lever to the straight path. If the front exit is selected, the documents may jam.



4.13.2. Setting the ADF Selector

1. **When scanning normal paper [64 to 75 g/m^2 (17 to 20 lbs.)], set the ADF selector to "3".**
2. **When scanning thick paper or smooth sided paper, set the ADF selector to "1" or "2".**
3. **When scanning thin paper or rough face paper, set the ADF selector to "4" or "5".**

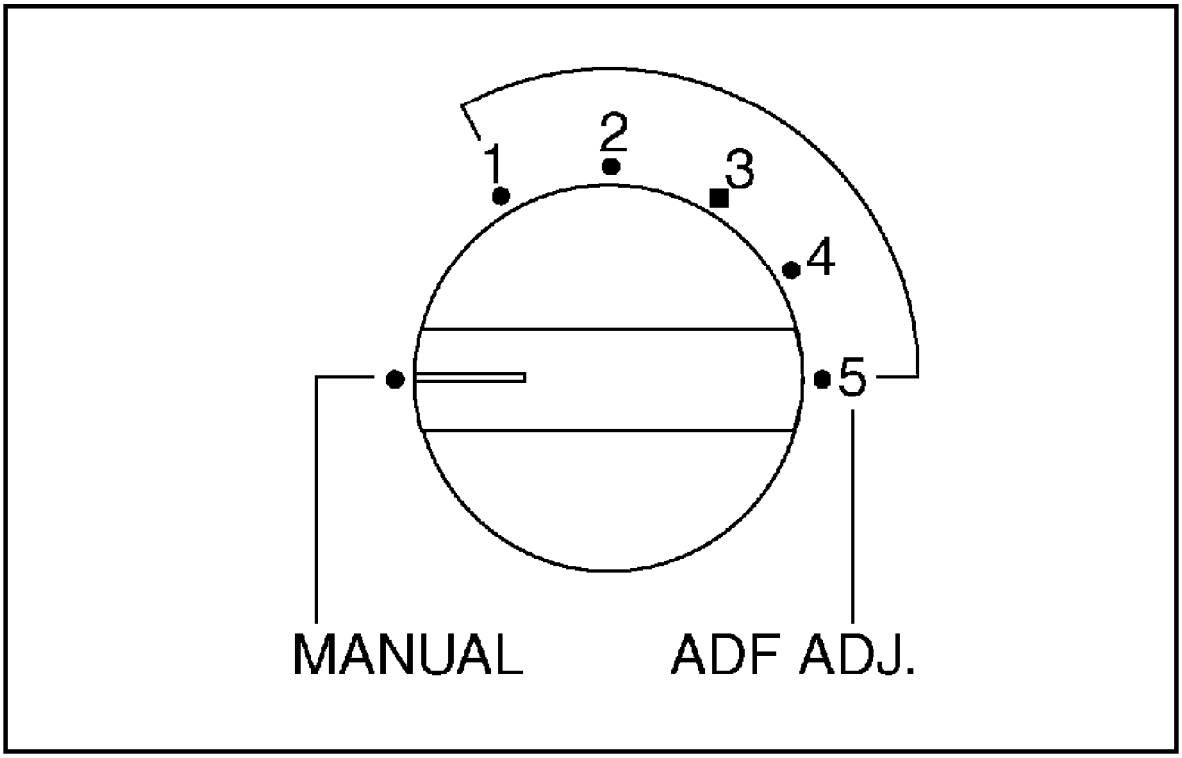


The ADF selector is located on the left side of the scanner.

4.13.3. Scanning Multiple Sheet Paper

1. When scanning multiple sheet paper, set the ADF selector to the position as shown in the diagram at the right, then the hopper moves to 1 sheet position.

2. Feed the multiple sheet paper document manually one by one.



5. SECTIONAL VIEWS

5.1. Motor and Mechanism

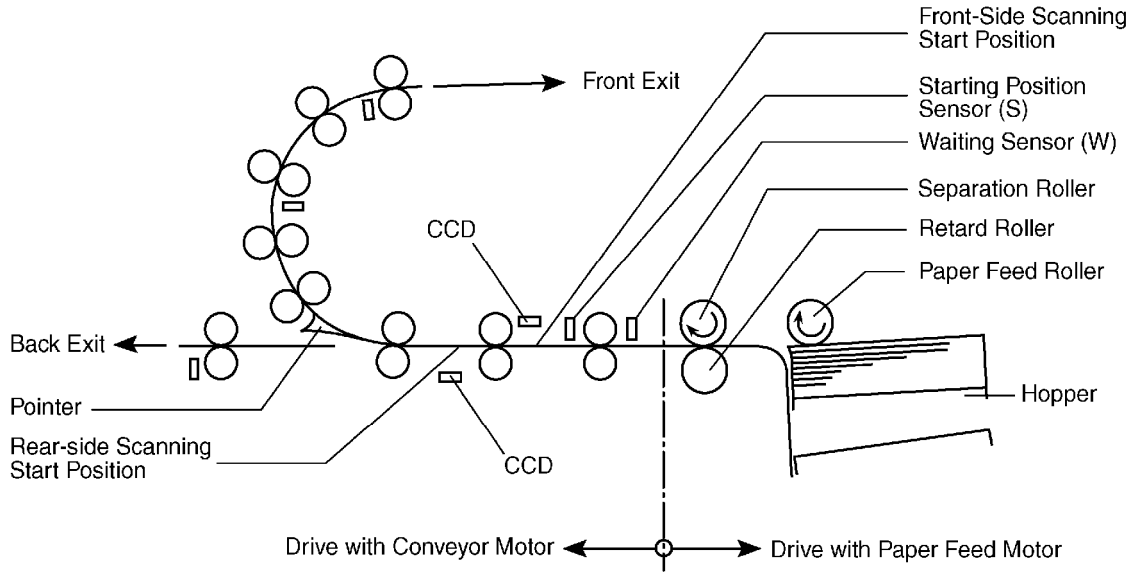
5.2. Circuit Boards

5.3. Sensors (Boards)

6. MECHANICAL FUNCTION

6.1. Paper Feed Mechanism

Fig. 6-1



1. When PC starts to output the scanning-start command signal after setting documents on the Hopper (detecting the document's existence by the Paper Detector), the Hopper goes up at the position which is good enough to attach the document to the Paper Feed Roller, and to feed papers.

Note
"Hopper position control mechanism" is shown in Fig. 6-5.

2. The Conveyor Motor starts to move to rotate the group of the Conveyor Rollers.

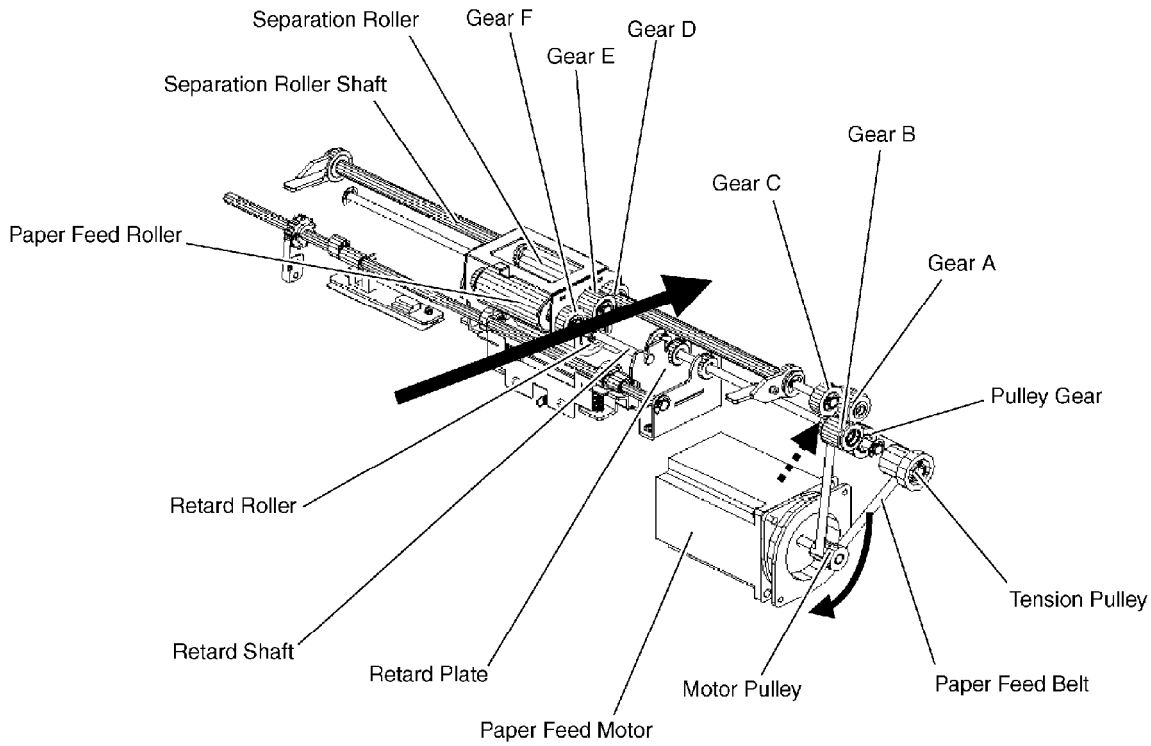
3. When the Paper Feed Motor starts, the Paper Feed Roller and the Separation Roller turn in feed direction ( ). The Retard Roller is supported by a shaft fixed via a torque limiter, and it is pushed against the Separation Roller. When the document enters into the separation section, the Retard Roller exerts a manipulation force onto the document, which depends on the set torque. In case of continuous paper feed, the document is separated by this manipulation force and is fed to the reading section. When multiple sheets are fed, the Retard Roller is pushed down by the cam action when the ADF Separator is turned all the way to the left, so that it separates from the Separation Roller and is retracted from the transport surface. By this, the document is not manipulated and is fed to the reading section.

4. When the leading edge of the manuscript having passed the separation section passes the Waiting Sensor, the Paper Feed Motor stops and the Paper Feed Roller and the Separation Roller turn together.

5. When the leading edge of the document passes the Starting Position Sensor, reading starts after a specified timing (the time required for transport from the Starting Position Sensor to the reading position).
6. When the trailing edge of the document passes the Waiting Sensor and the buffer memory can hold four pages or more, the Paper Feed Motor starts again and the next document is fed.
7. Afterwards, the steps (3) to (6) are repeated.
8. When the trailing edge of the document passes the Waiting Sensor and the buffer memory does not have space for four pages or more, the Paper Feed Motor starts again, the next document is fed, and when the leading edge of the next document has passed the Waiting Sensor, the Paper Feed Motor stops and standby is performed until the next read command comes from the PC.
9. When a read command comes from the PC, the Paper Feed Roller starts again and the standby document is fed to the reading section.
10. Afterwards, the steps (3), (4), (5), (8), and (9) are repeated.

6.2. Feed Roller Mechanism

Fig. 6-2

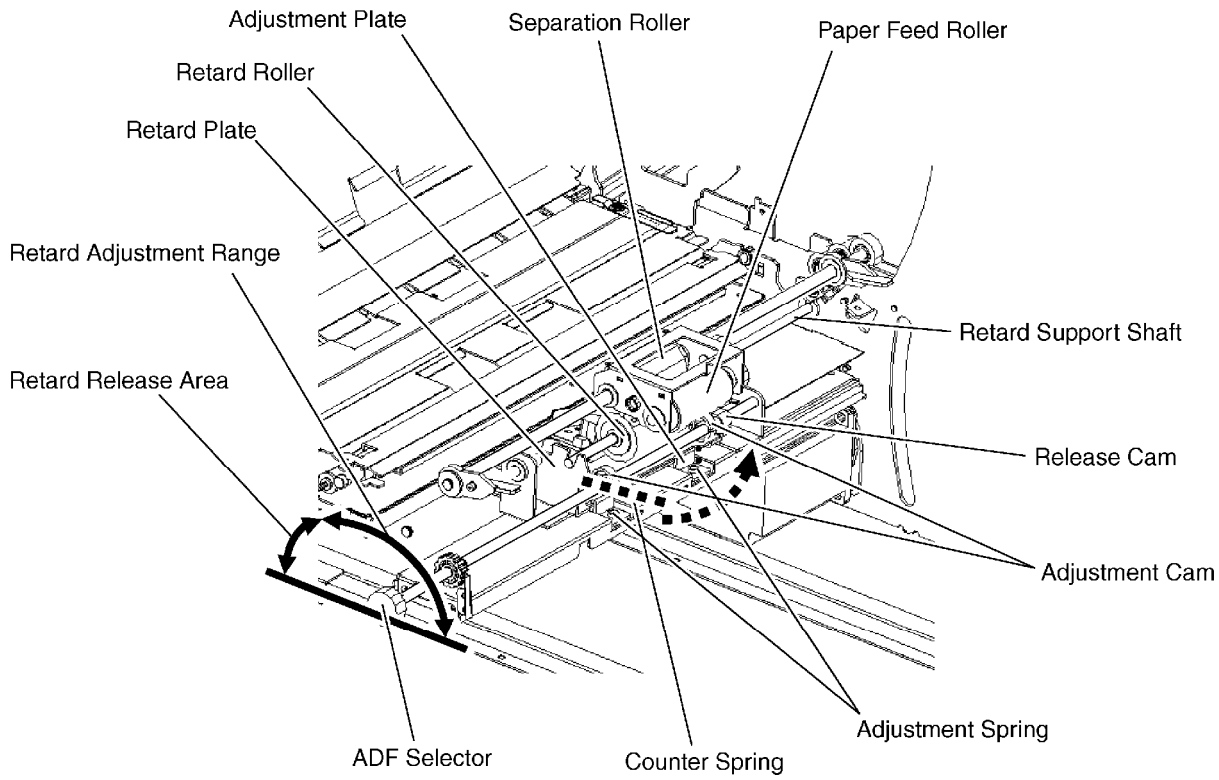


The rotation of the Paper Feed Motor in arrow direction is transmitted to the Separation Roller via the Motor Pulley, the Paper Feed Belt, the Pulley Gear, the

Gears A, B, and C, and the Separation Roller Shaft, it is also transferred to the Paper Feed Roller via the Gears D, E, and F, and the Paper Feed Roller and the Separation Roller are driven in the document feed direction indicated by the bold arrow. The Retard Roller is in contact with the Retard Shaft via a torque limiter, and as the Retard Shaft is supported by the U-groove of the Retard Mounting Plate, the built-in torque limiter of the Retard Roller operates and prevents entry of the second or further documents when more than one document is fed at a time.

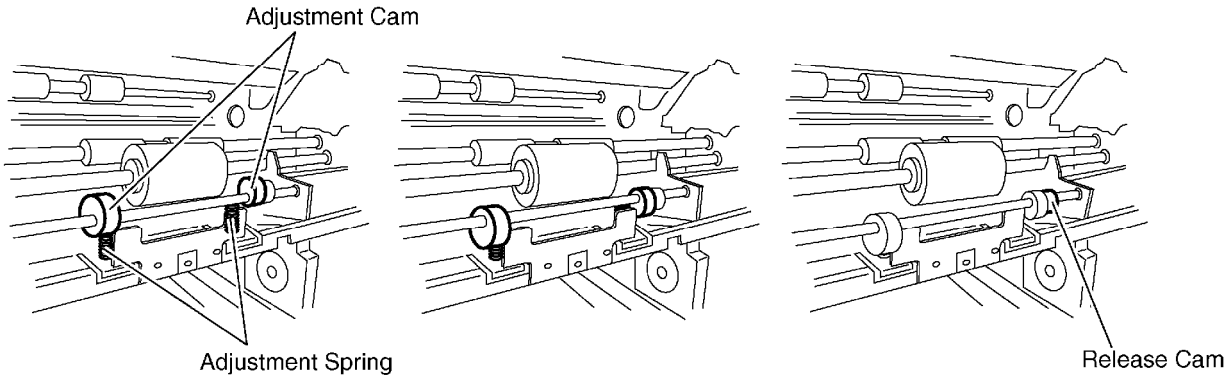
6.3. Retard Roller Mechanism

Fig. 6-3



The Retard Roller is supported by the Retard Plate. The Retard Plate is supported so that it can oscillate around the Retard Drive Shaft at the center, and as the Retard Plate is pulled in arrow direction by the counterspring (tension coil spring), a rotation moment in arrow direction (▪ ▪ ▪▶) is generated with the Retard Support Shaft at the center, and an upward pressure is generated by contact with the Separation Roller. The Pressure Adjustment Plate is supported so that it can oscillate around the Retard Support Shaft at the center, and composition is so that the Retard Plate is pushed down by the Adjustment Cam via the Pressure Adjustment Spring (Compression Coil Spring). The Adjustment Cam turns the cam by turning the adjustment knob 120° left and right by means

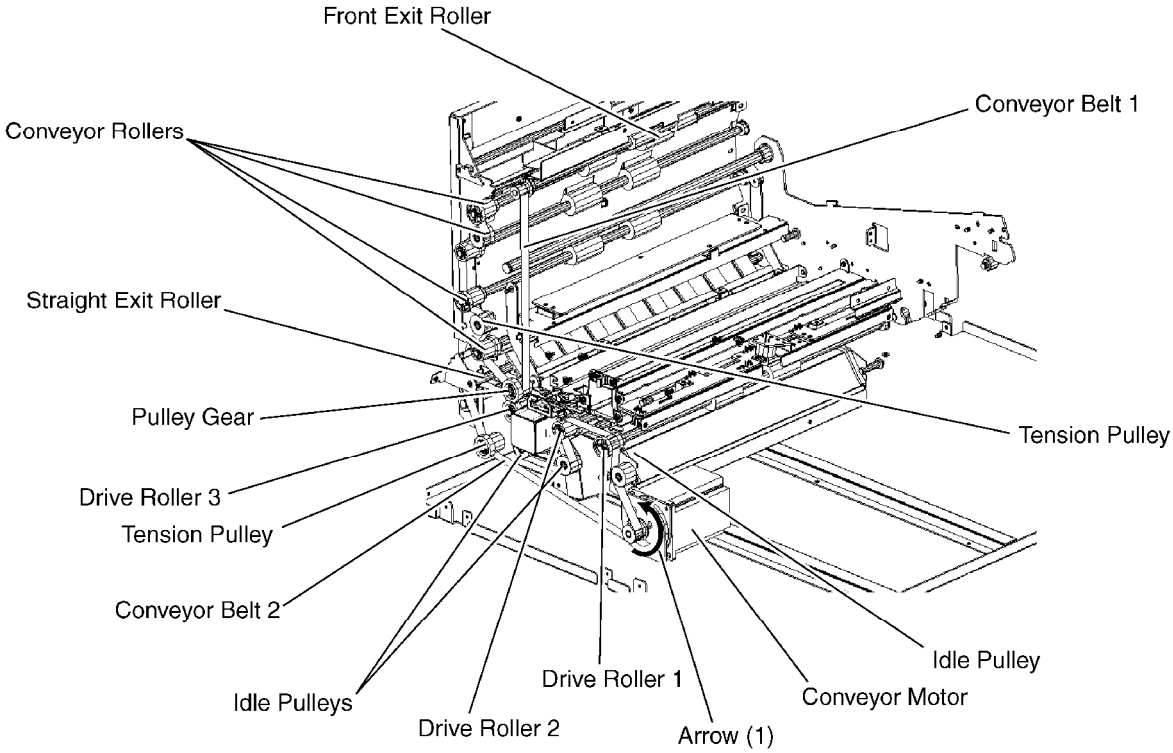
of a cylindrical cam eccentric in regard to a shaft arranged in parallel to the Retard Drive Shaft, the Pressure Adjustment Plate is pushed down, the tension force of the counterspring is balanced corresponding to the compression force of the Adjustment Spring, and the upward pressure of the Retard Roller is adjusted. The possible movement angle of the adjustment knob is 180°, and when it is turned in counterclockwise direction, the push pressure is varied for the first 120°, while the pressure adjustment plate is pushed down by the Release Cam during the last 60° to separate the Retard Roller from the Separation Roller.



The release cam pushes the Retard Plate down for separation.

6.4. Conveyor Roller Mechanism

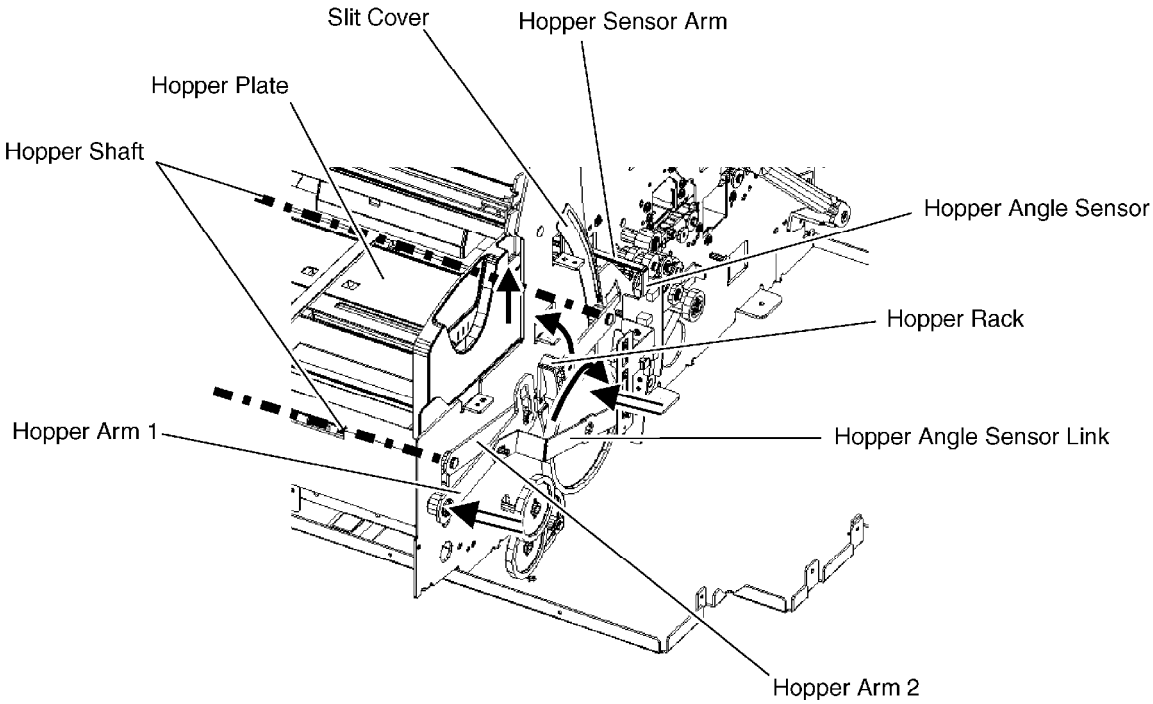
Fig. 6-4



The Drive Rollers 1, 2, and 3 and the Straight Exit Roller are driven by the Conveyor Motor via the Conveyor Belt 2. The Conveyor Roller and the Front Exit Roller are driven from the Conveyor Belt 2 via the Pulley Gear and the Conveyor Belt 1. Belt Tension is applied to the Conveyor Belts 1 and 2 by the tension force of the spring of the Tension Pulley installed at one place each for each belt. When a tension force in excess of the Spring Tension is applied to the belt, motor step-out and other problems may occur, so that only the spring shall be used to apply tension. The Conveyor Motor runs in direction of the Arrow(1), and it rotates always during document reading.

6.5. Hopper Mechanism

Fig. 6-5



1. The Hopper Plate is placed onto the Hopper Shaft (▬ ▪ ▬ ▪ ▬) not shown in the above figure.

2. The Hopper Arm 1 is coupled to a pin on the Main Chassis at the front side of the Hopper, so that it can oscillate freely, and the Hopper Arm 2 is coupled to a pin on the Main Chassis at the rear side of the Hopper (⟸part) in the same way, and in both cases the other end is coupled to the Hopper Shaft.

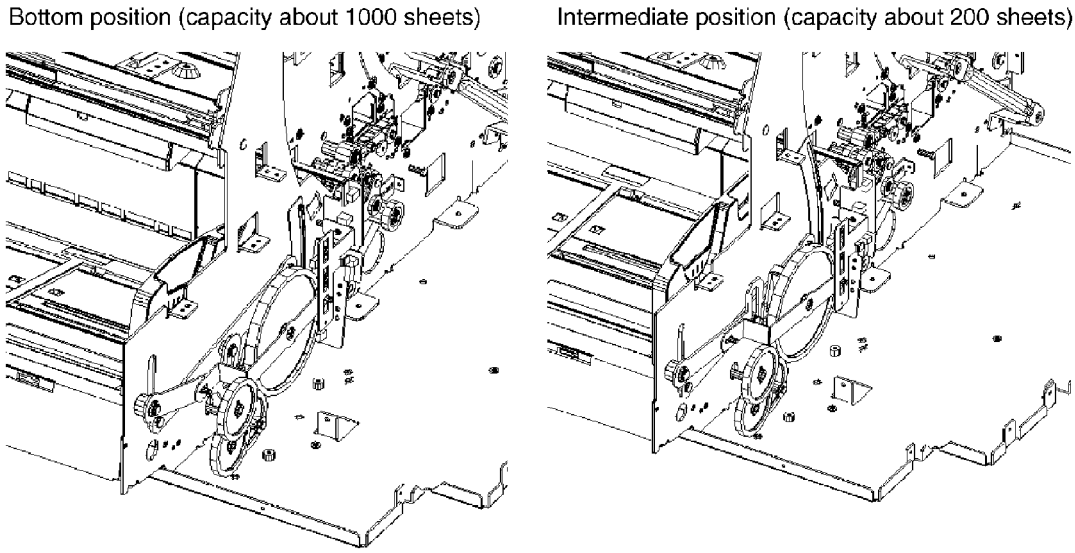
3. The Hopper rack is installed to the Hopper Arm 1 so that a part of the gear with the center at the oscillating support is engaged, and at the gear side, this rack is engaged with the Hopper Motor not shown in the figure.

4. The pin of the Hopper Arm 2 is engaged with the elongated hole at the intermediate part of the Hopper Arm 1, and when the Hopper Motor runs in counterclockwise direction as seen from the output shaft, the rack mentioned above oscillates in upward direction with the support of the Hopper Arm 1 at the center, and the front side of the Hopper Plate rises. Movement in arrow (→) direction.

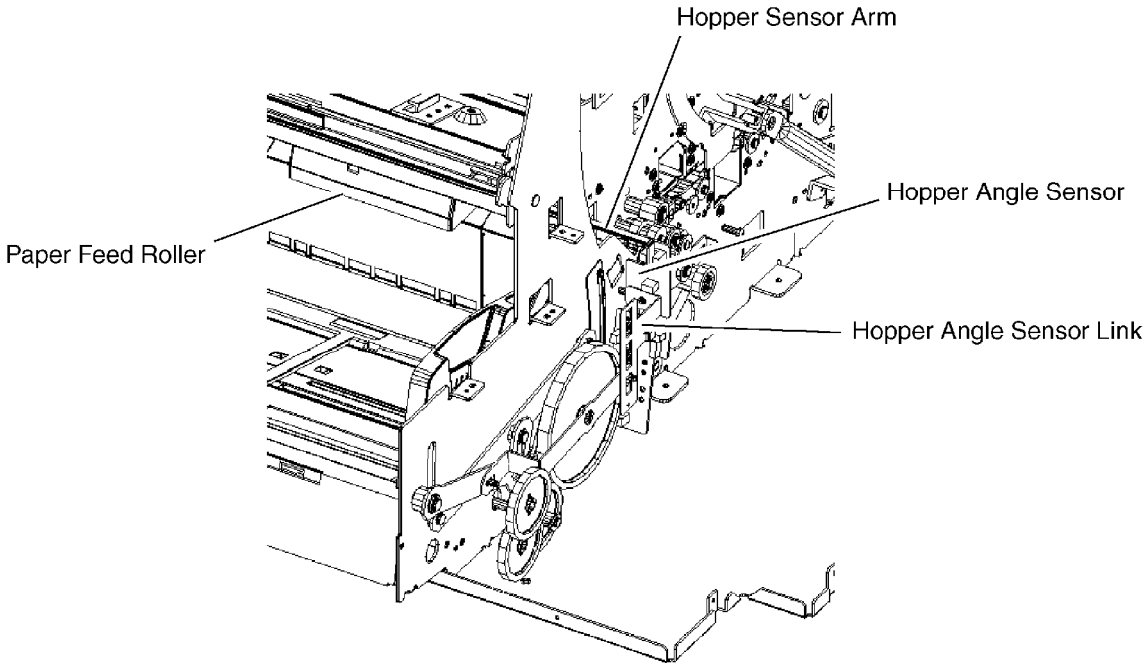
5. When the Hopper Arm 1 exceeds the position where the elongated hole comes into contact with the pin of the Hopper Arm 2, the Hopper Arm 2 is coupled with the Hopper Arm 1, moves up with the support at the center, and the rear edge of the Hopper Plate moves up.

6. By this series of operations, the Hopper Plate posture changes from the bottom position via an intermediate inclined posture to a level posture, and

after becoming level, it rises in this posture. The reverse movement is used to go down.



7. The Paper Feed Roller changes the contact angle with the original according to the inclination angle of the Hopper Plate in order to effect stable feed of the original to the Separation Roller section in regard to changes in the angle of the Hopper Plate.

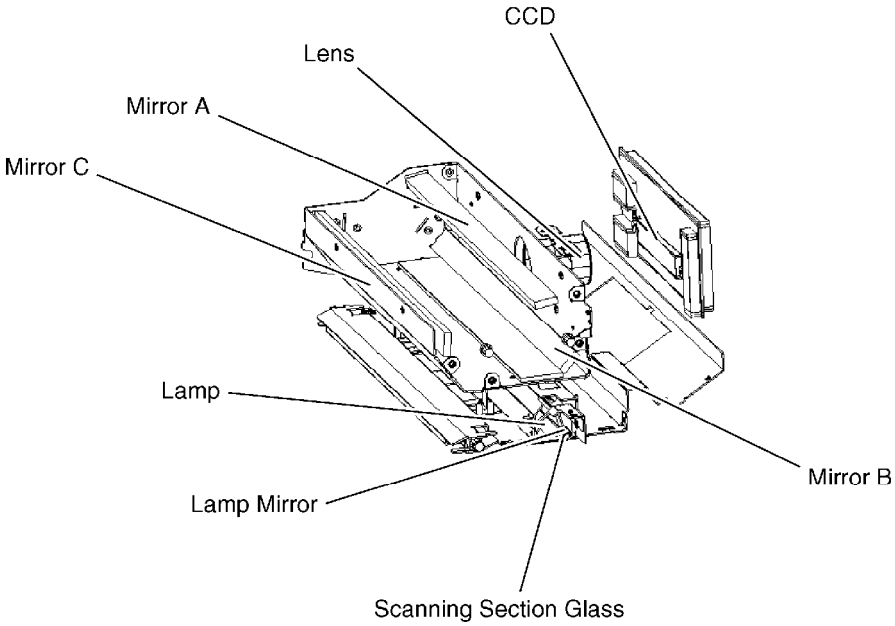


8. The Paper Feed Roller is installed so that it can oscillate around the Separation Roller Drive Shaft, and when the Paper Feed Roller is pushed up via the original by the rise of the Hopper, the Hopper Sensor Arm (installed on

the subshaft so that it can oscillate) is pushed up.

9. **The inclination angle of the Hopper Plate is detected by the position of the Angle Sensor, where the oscillation motion of the Hopper Arm 1 is converted to vertical movement of the Hopper Angle Sensor via the Hopper Angle Sensor Link. The Hopper Sensor Link is installed so on the Hopper Drive Gear (arrow A) that it can oscillate. When the Hopper Arm 1 in the above figure oscillates up in arrow direction, the Hopper Angle Sensor Link pulls the Hopper Angle Sensor down. When the Hopper Plate is at the position corresponding to switching to a level posture, the Angle Sensor comes into contact with a stopper (not shown in the figure), and the detection position does not move down any further.**
10. **The Hopper Sensor arm is constructed so that it interrupts the light to the photo interrupter of the Hopper Angle Sensor, and at the position where the Angle Sensor has detected the Hopper Sensor Arm, the Hopper rise is stopped and the angle of the Paper Feed Roller is controlled to a posture corresponding to the inclination angle of the Hopper Plate.**

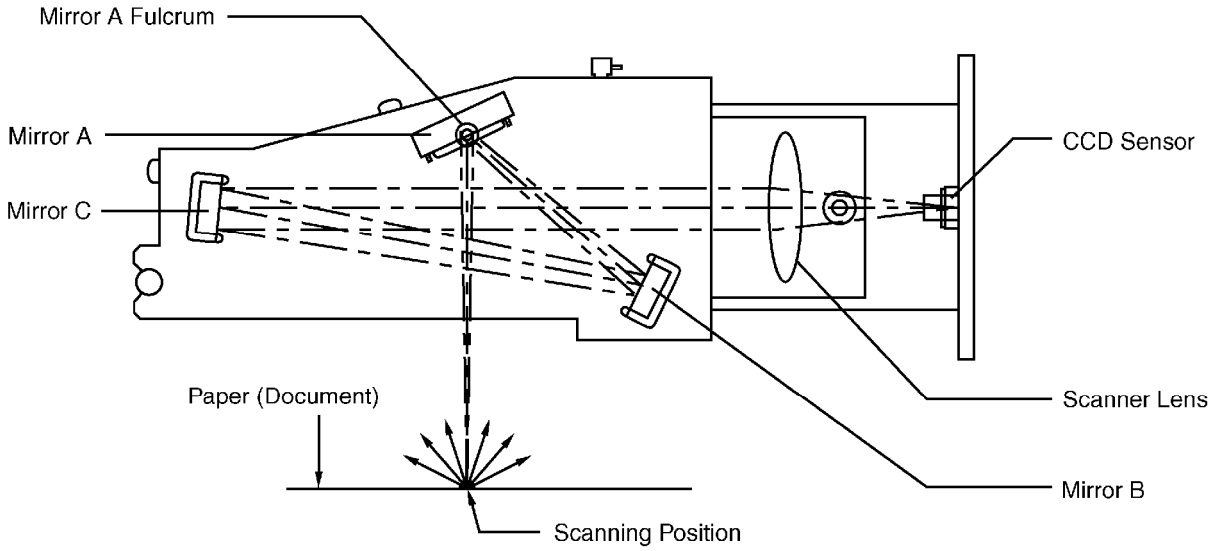
6.6. Optical Unit Mechanism



The pick-up system of the KV-SS905C uses an optical system with the same reduction at the front and at the rear. The light source is an external white cathode tube, and a lamp mirror is installed opposite the lamp to increase the light volume, The front and the rear of the Lamp Module are composed of special modules, and lamp maintenance can be performed in the same way as for the KV-SS855 by pulling the Lamps from the right side to exchange them. The light path

in the Optical Unit is as follows: The reflected light from the original surface is reflected by Mirror A → Mirror B → Mirror C, passes through the lens, and forms an image at the CCD sensor surface. The CCD is a 3-line color CCD with R, G, and B color filters.

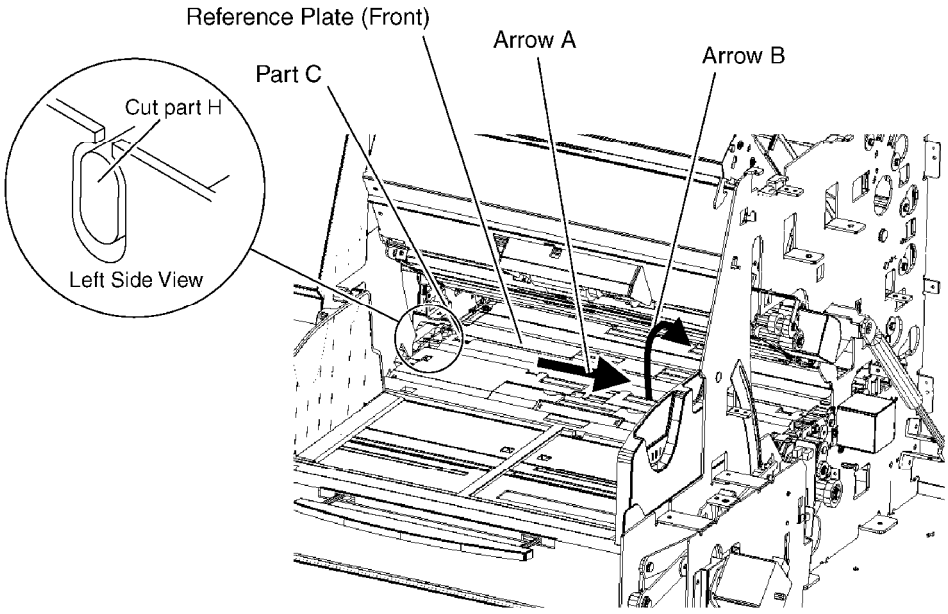
Fig. 6-6



6.7. Reference Plate

The Reference Plate opposite the scanning section glass has two colors, white at the front and black at the rear. Push the Reference Plate with your finger to the right (Arrow A). When the cut part H at the left edge of the Reference Plate Support Shaft comes out of the slide groove, the Reference Plate can turn freely and it can be reversed (Arrow B). When the left edge (Part C) of the Reference Plate is pushed lightly with a finger, the Reference Plate is returned to its original position by the return spring at the right edge of the Reference Plate Support Shaft.

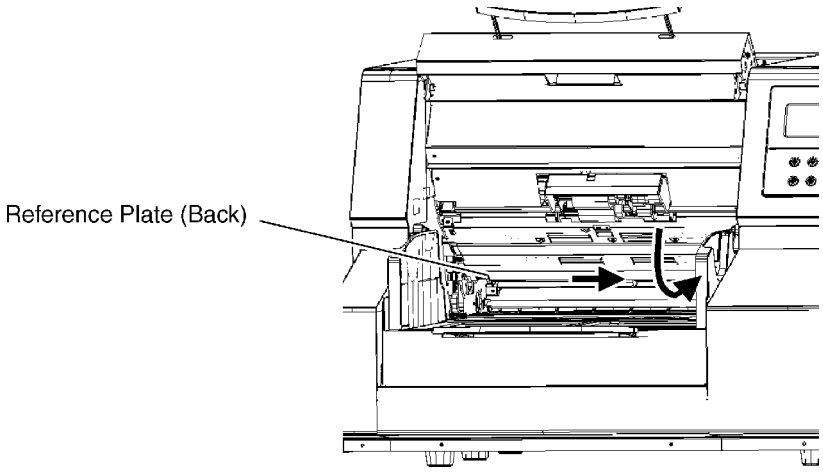
Fig. 6-7



In the same way, the rear reference plate can be reversed by sliding it to the right.

Note

- **Do not close the door while the reference plate is at an intermediate position during the reversal. Breaking of the glass can occur.**
- **When the Reference Plate does not return back to the default position, the Front Door won't be able to be closed correctly. In this case, slide the Reference Plate to the left, while pressing the Plate.**



7. MAINTENANCE

7.1. Maintenance Chart

C: Clean R: Replace (×1000 sheets)

Description	Part No.	20	40	60	80-260	280	300	Comments
aper Feed Roller	PJDRB0056Z	C	C	C	Clean each position every 20,000 sheet's being scanned.	C	R	(Feed Roller)
eparation Roller	PJDFB0030Z	C	C	C		C	R	(Separation Roller Shaf
etard Roller	PJDRB0029Z	C	C	C		C	R	(Separation Roller)
etard Pad	PJHRB0091Z-J	C	C	C		C	R	(Pad Flame Assembly)
river Roller 1	PJDRX03S905C	C	C	C		C	C	(Drive Roller 1 Assemb
river Roller 2	PJDRX05S905C	C	C	C		C	C	(Drive Roller Assembly
river Roller 3	PJDRX04S905C	C	C	C		C	C	(Drive Roller 2 Assemb
ront Exit Roller	PJDRX02S905C	C	C	C		C	C	(Exit Roller Assembly)
traight Exit Roller	PJDRX02S905C	C	C	C		C	C	(Exit Roller Assembly)
onveyor Roller 1	PJDRX05S905C	C	C	C		C	C	(Drive Roller Assembly
onveyor Roller 2	PJDRX03S905C	C	C	C		C	C	(Drive Roller 1 Assemb
onveyor Roller 3	PJDRX05S905C	C	C	C		C	C	(Drive Roller Assembly
onveyor Roller 4	PJDRX03S905C	C	C	C		C	C	(Drive Roller 1 Assemb
arget Glass(Front)	PJUEX03S905C	C	C	C		C	C	(Conveyor Up 1 Assem
arget Glass(Back)	PJHEB0008Z	C	C	C		C	C	(Target Glass)
eference Plate(White)	PJUEB0005Z	C	C	C		C	C	(Conveyor Up White)
eference Plate (Front lack)	PJUEB0006Z	C	C	C		C	C	(Conveyor Up Black)
eference Plate (Back lack)	PJUEB0007Z	C	C	C		C	C	(Conveyor Bottom Blac
ee Roller 1	PBHRA0133Z-J	C	C	C		C	C	(Roller Assembly)
ee Roller 2	PJDRX06S905C	C	C	C		C	C	(FR Free Roller)

Note1
The above values for each maintenance item are registered in the maintenance counter, and the LCD informs the user when each condition occurs. All other counters can be observed using service mode.

Note2
This maintenance schedule was determined according to standard of paper, which can vary greatly between users. Therefore, the values can be customized for each user.

Note3
After scanning operations, the surfaces around the scanning section glass and reference plates may be hot. Wait for them to be cool before cleaning inside the scanner.

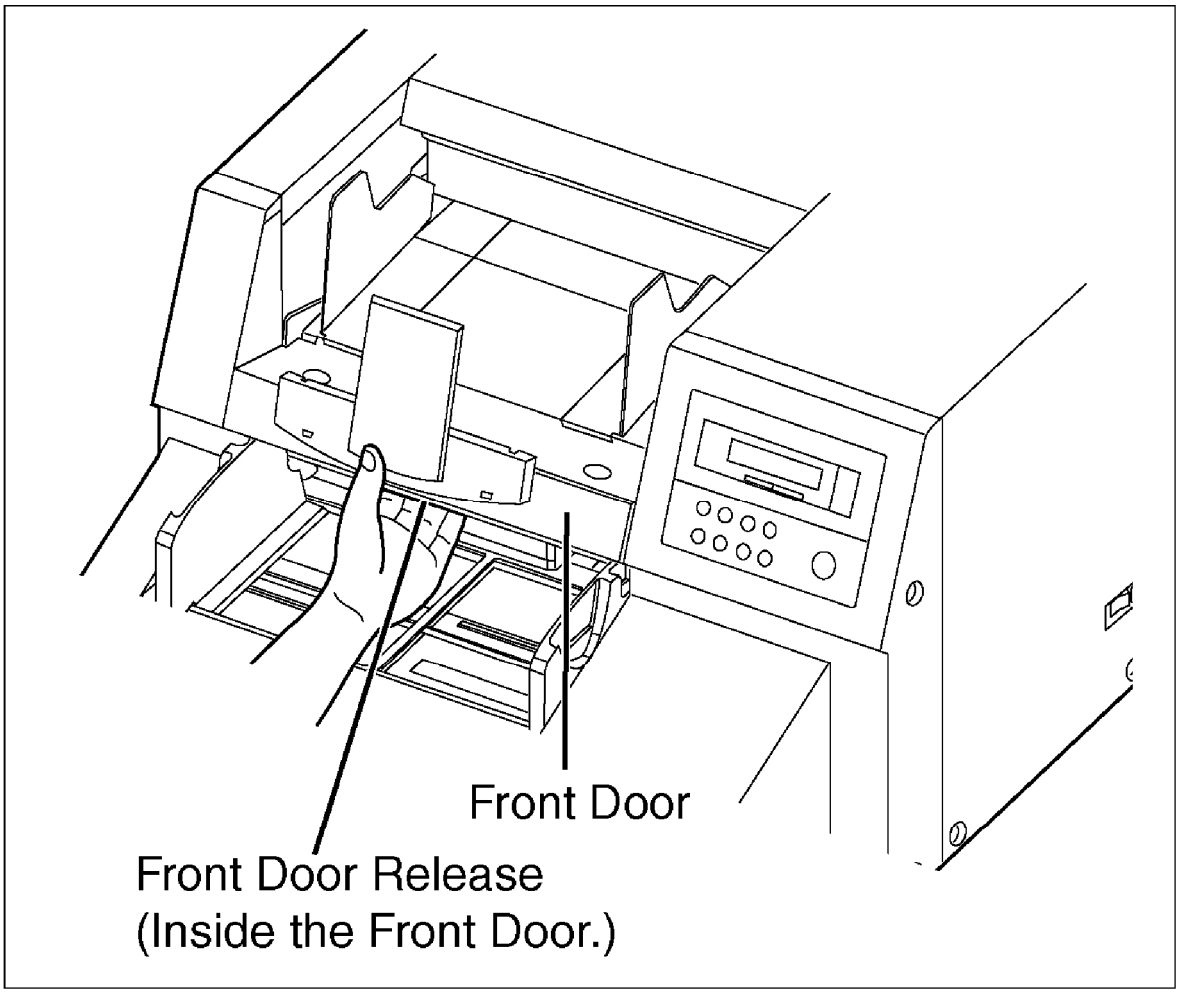
Note4
The information shown in the "Comments" column of the upper figure is used in the "Part Name & Description" column of Section 14.

7.2. Cleaning Rollers

1. Turn the power off.

2. Using your hand to pull the Front Door release towards you.

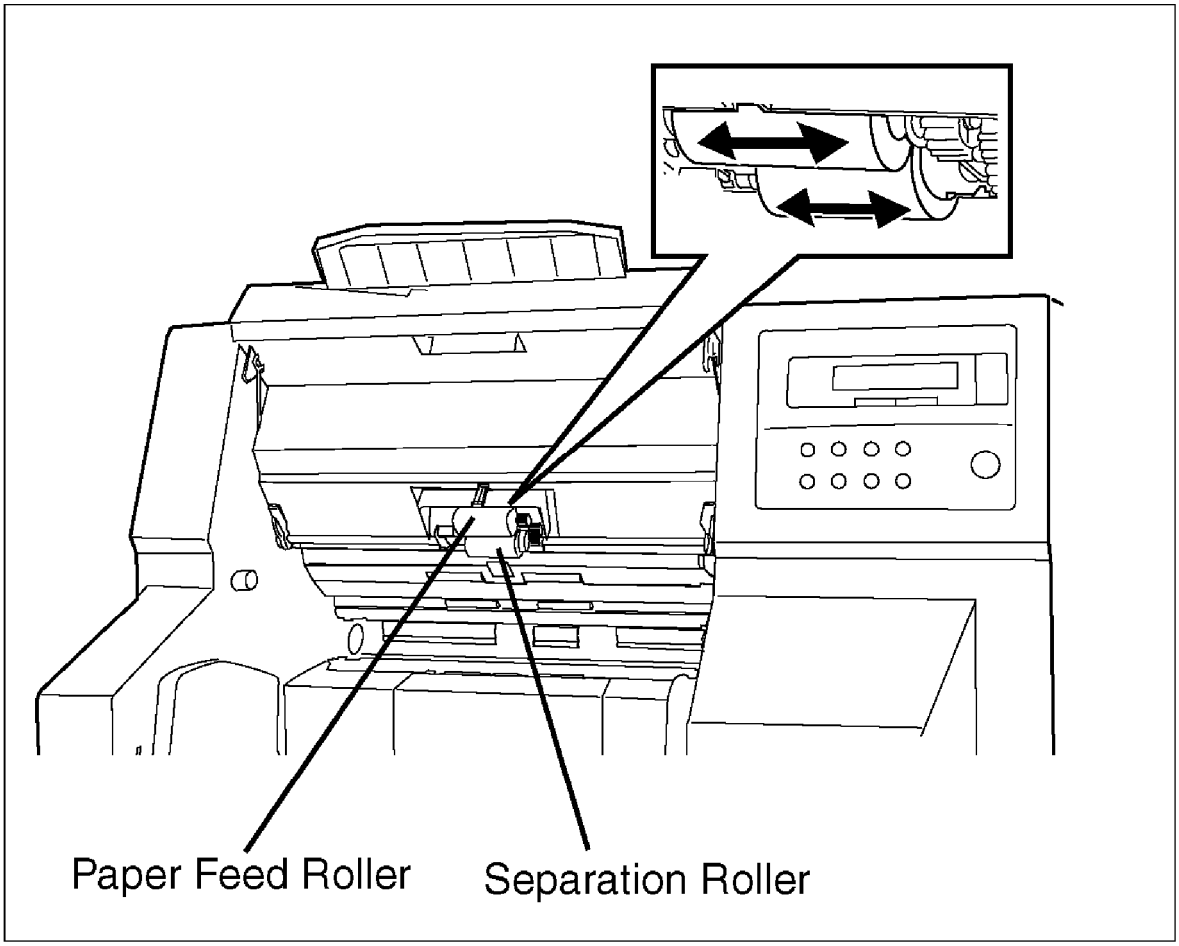
Note
The Front Door now opens slowly.



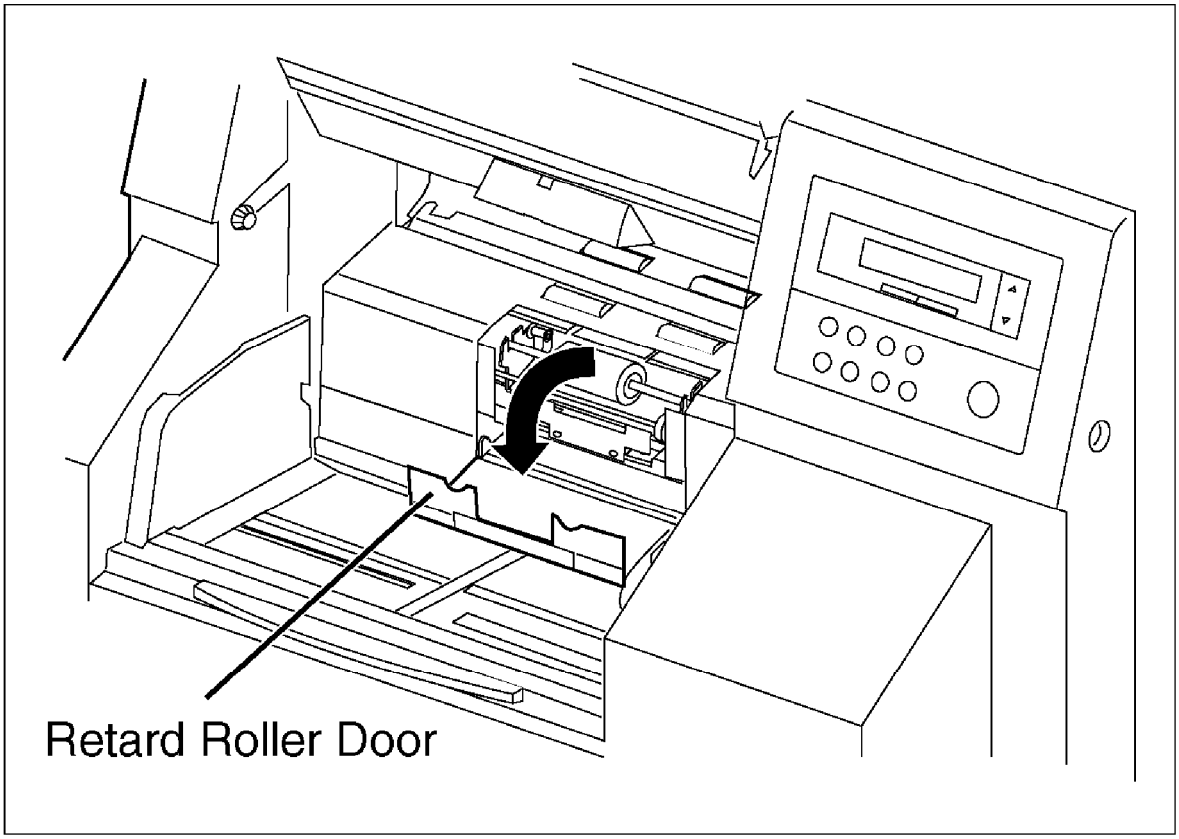
3. Use the accessory Roller Cleaning Paper to wipe off the dirt on the surfaces of the Paper Feed Roller, Separation Roller and Retard Roller.

Note

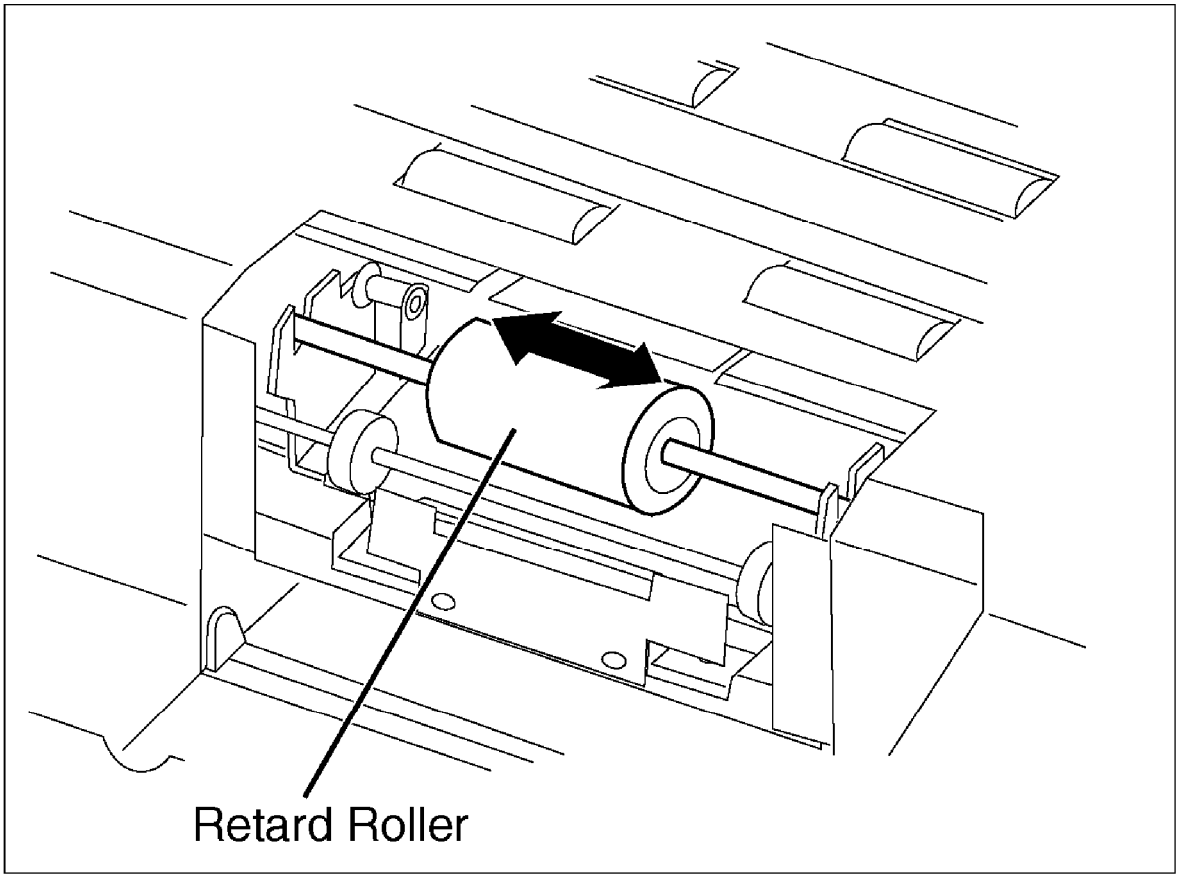
When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the rollers all the way around them proceeding from one end to the other in the directions of the arrows shown in the figure to the right.



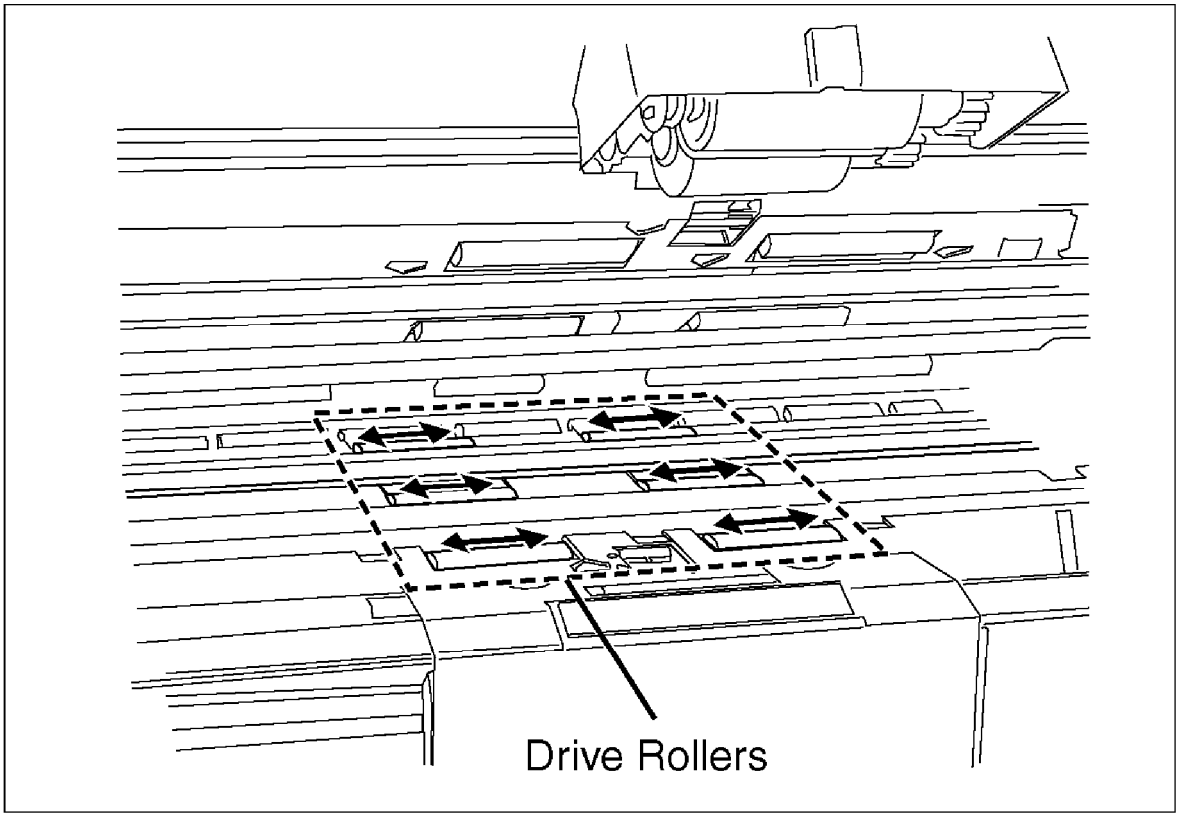
4. Open the Retard Roller Door.



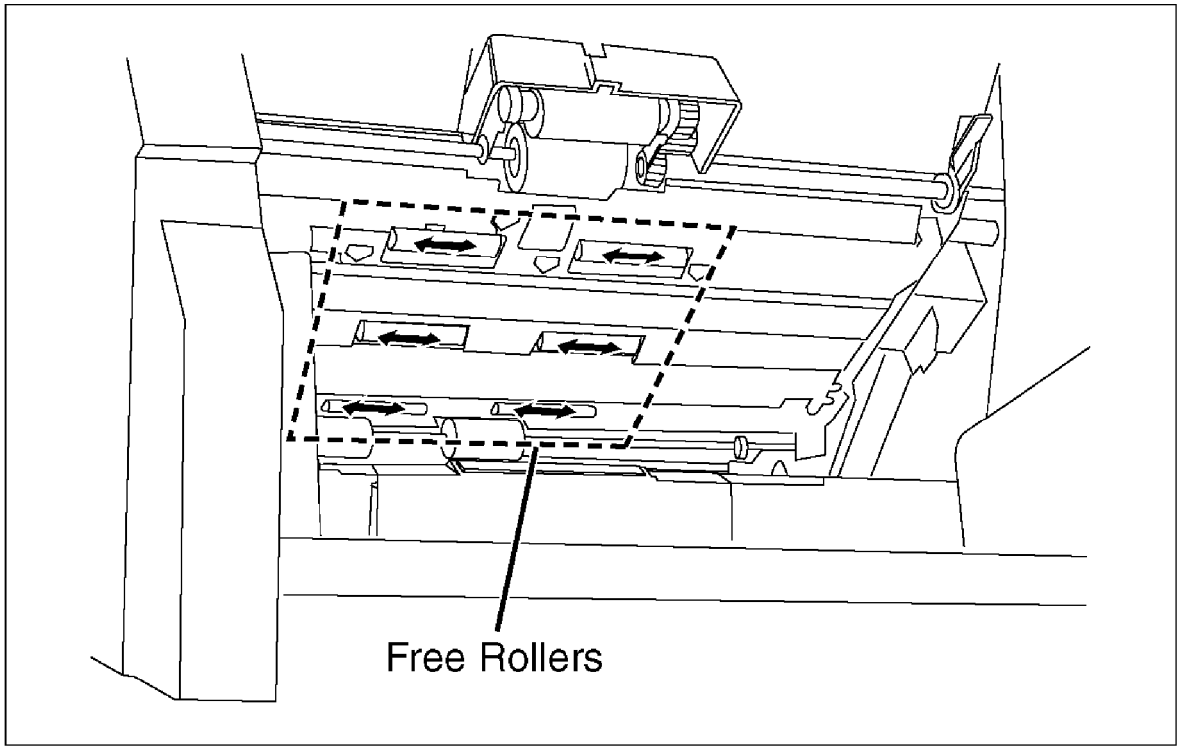
5. Use the accessory Roller Cleaning Paper to clean the surface of the Retard Roller. Wipe the Retard Roller all the way around it proceeding from one end to the other in the direction of the arrow shown in the figure to the right. Then close the Retard Roller Door.



6. Use the accessory Roller Cleaning Paper to wipe off the dirt on the surfaces of the six rubber of the Drive Rollers.

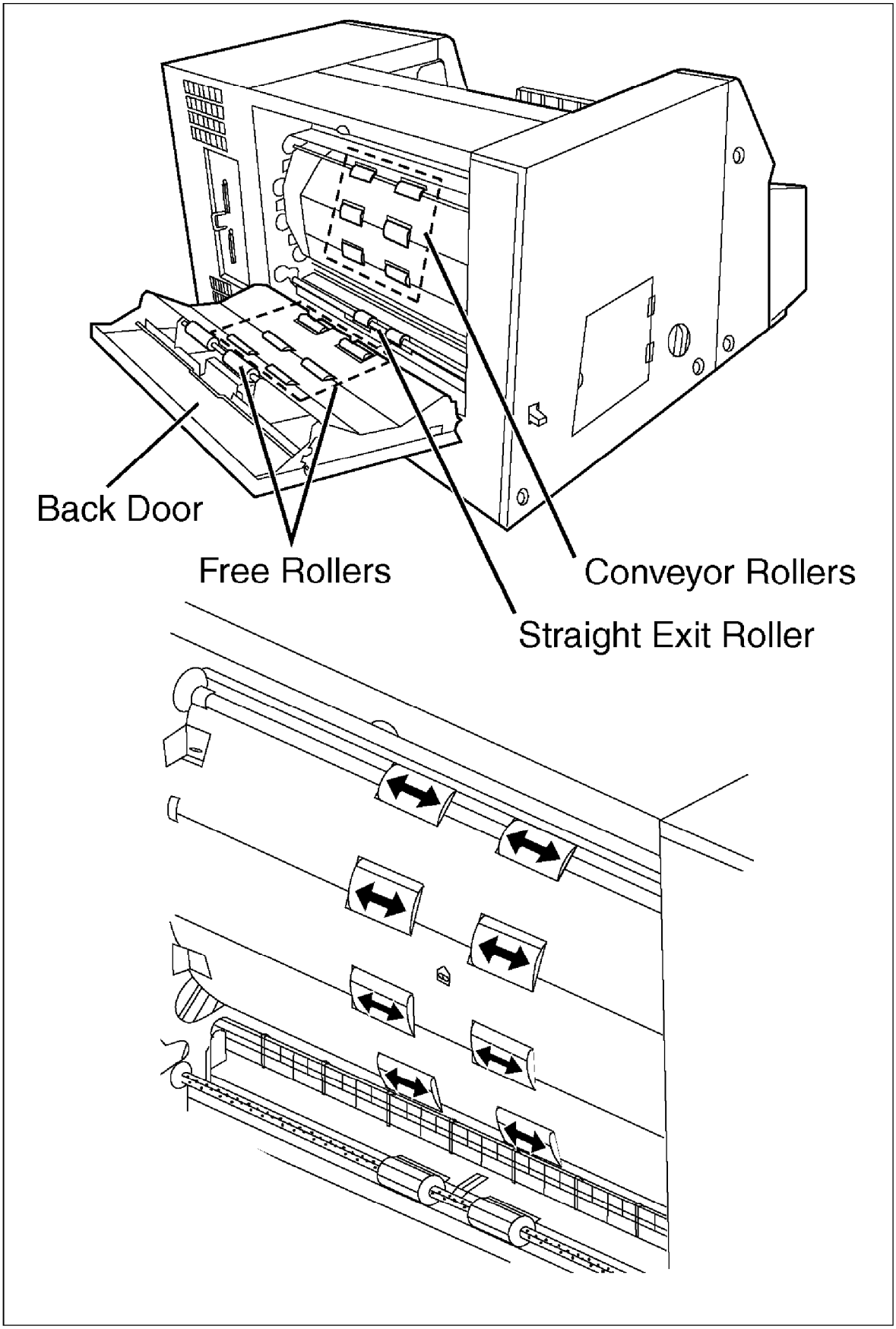


7. Use the accessory Roller Cleaning Paper to clean the surface of six Free Rollers. Wipe all the way around them proceeding from one end to the other in the directions of the arrows shown in the figure to the right. Then close the Front Door.



8. After opening the Back Door by pulling the Back Door release, use the accessory Roller Cleaning Paper to wipe the surfaces of the Conveyor Rollers, Straight Exit Roller, and Free Rollers all the way around them proceeding from one end to the other in the directions of the arrows shown in the figure to the right. Then close the Back Door.

9. After cleaning, clear warning for “Clean Roller” on LCD by operating Clear warning for “Clean Roller” according to 9.5.4.2..


Back Door
Free Rollers
Conveyor Rollers
Straight Exit Roller

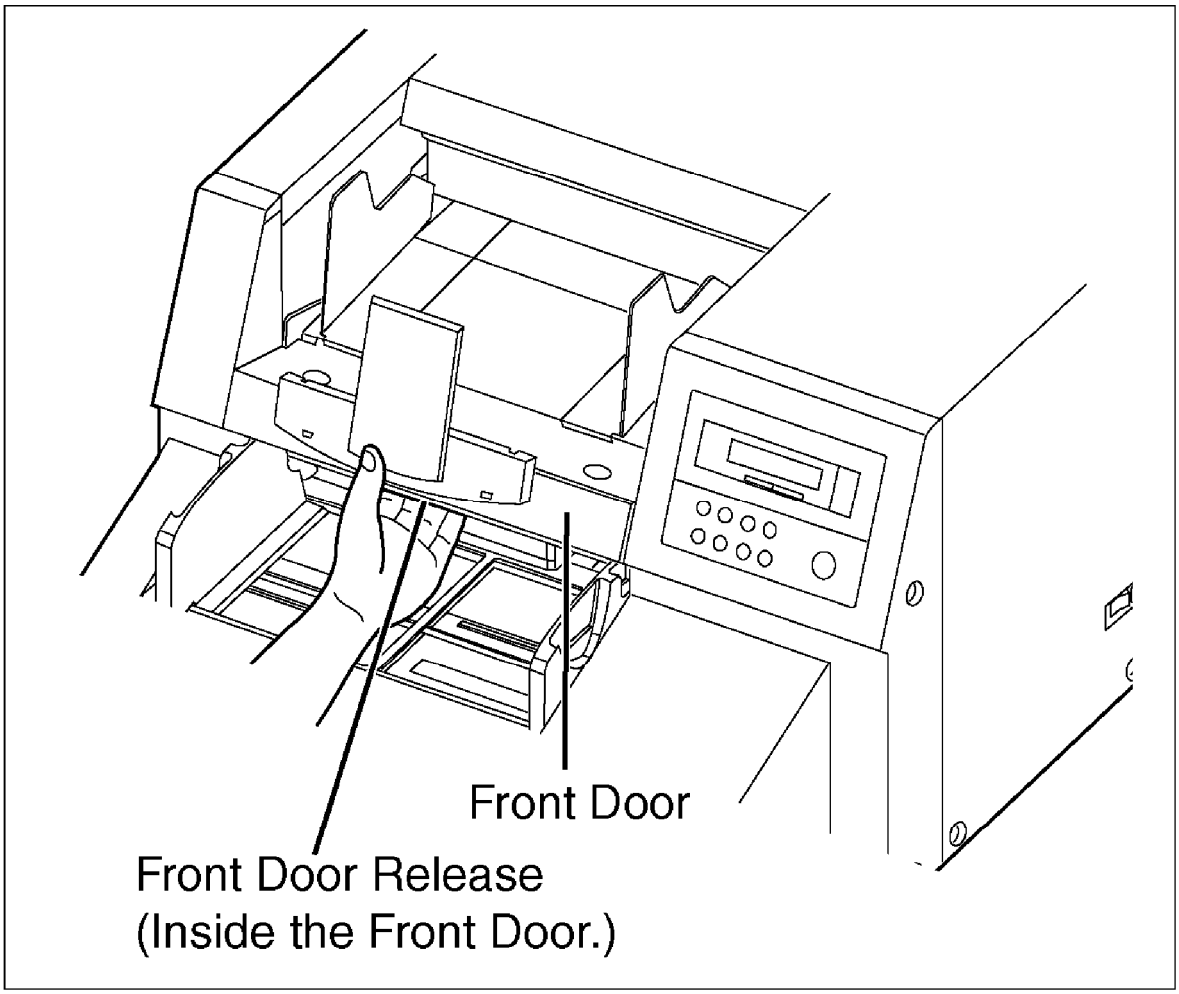
7.3. Cleaning the scanning section glass and reference plate

1. Turn the power off.

2. Using your hand, pull the Front Door Release towards you.

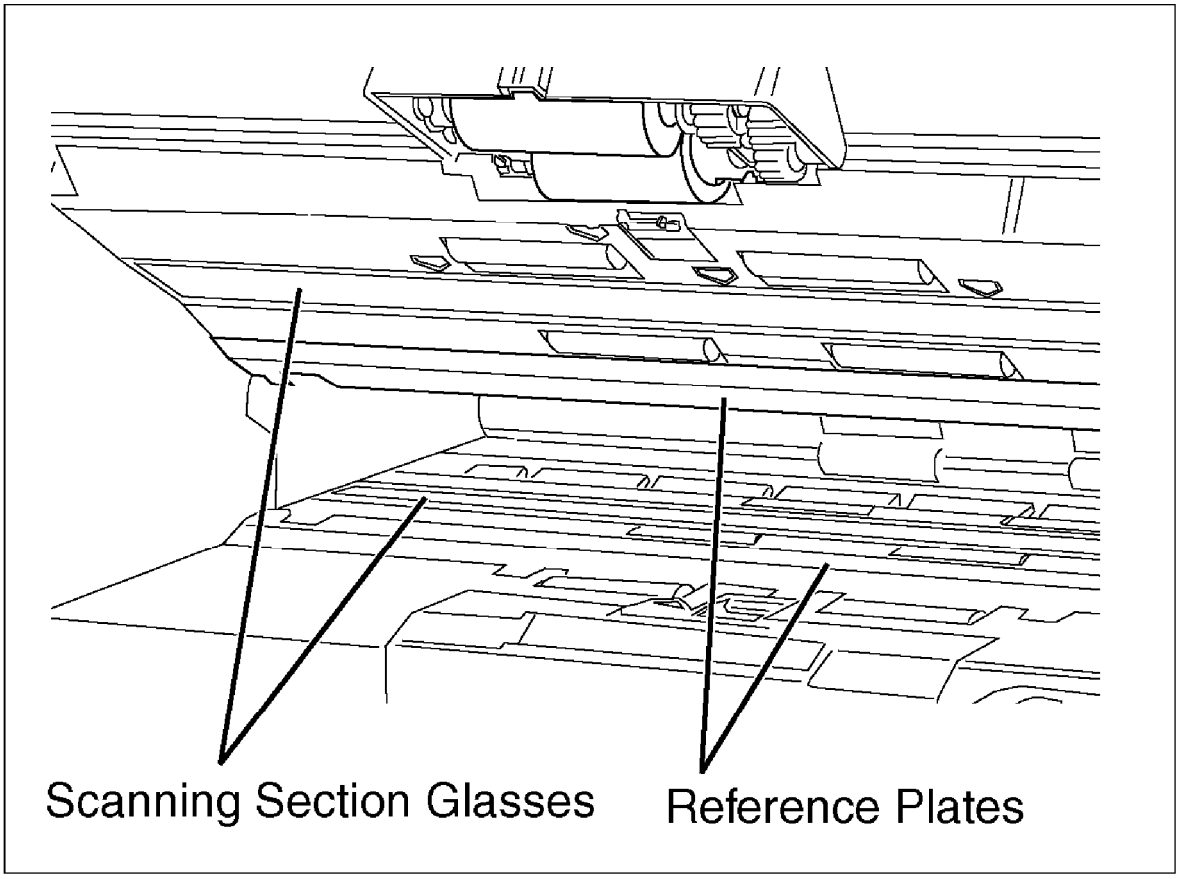
Note 1.
The Front Door now opens slowly.

Note 2.
After scanning operations, the surfaces around the scanning section glasses and the reference plates may be hot. Wait for them to cool before cleaning inside the scanner.



3. Clean the Scanning Section Glasses and Reference Plates using the accessory Roller Cleaning Paper.

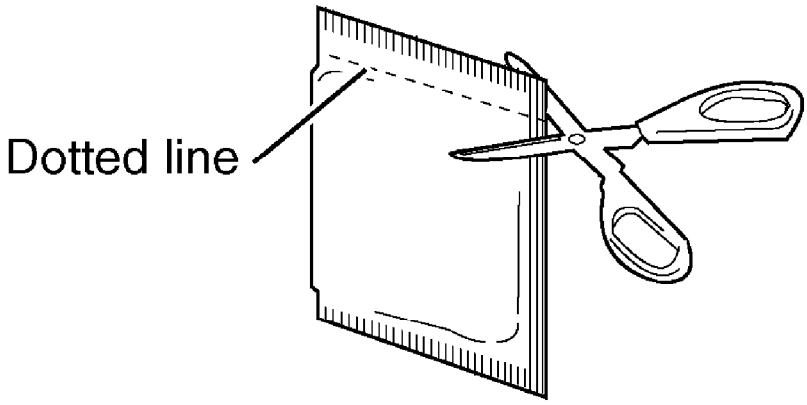
4. Close the Front Door.



Note for the Roller Cleaning Paper
Open the bag by the dotted line and take out the Roller Cleaning Paper.

- **If the opened bag is left open for a long period of time before using it, the alcohol will evaporate. Please use the Roller Cleaning Paper immediately after opening the bag.**

The Roller Cleaning Paper (Model No. KV-SS03) is available via sales route.



7.4. Cleaning Sensors

1. Turn the power off.

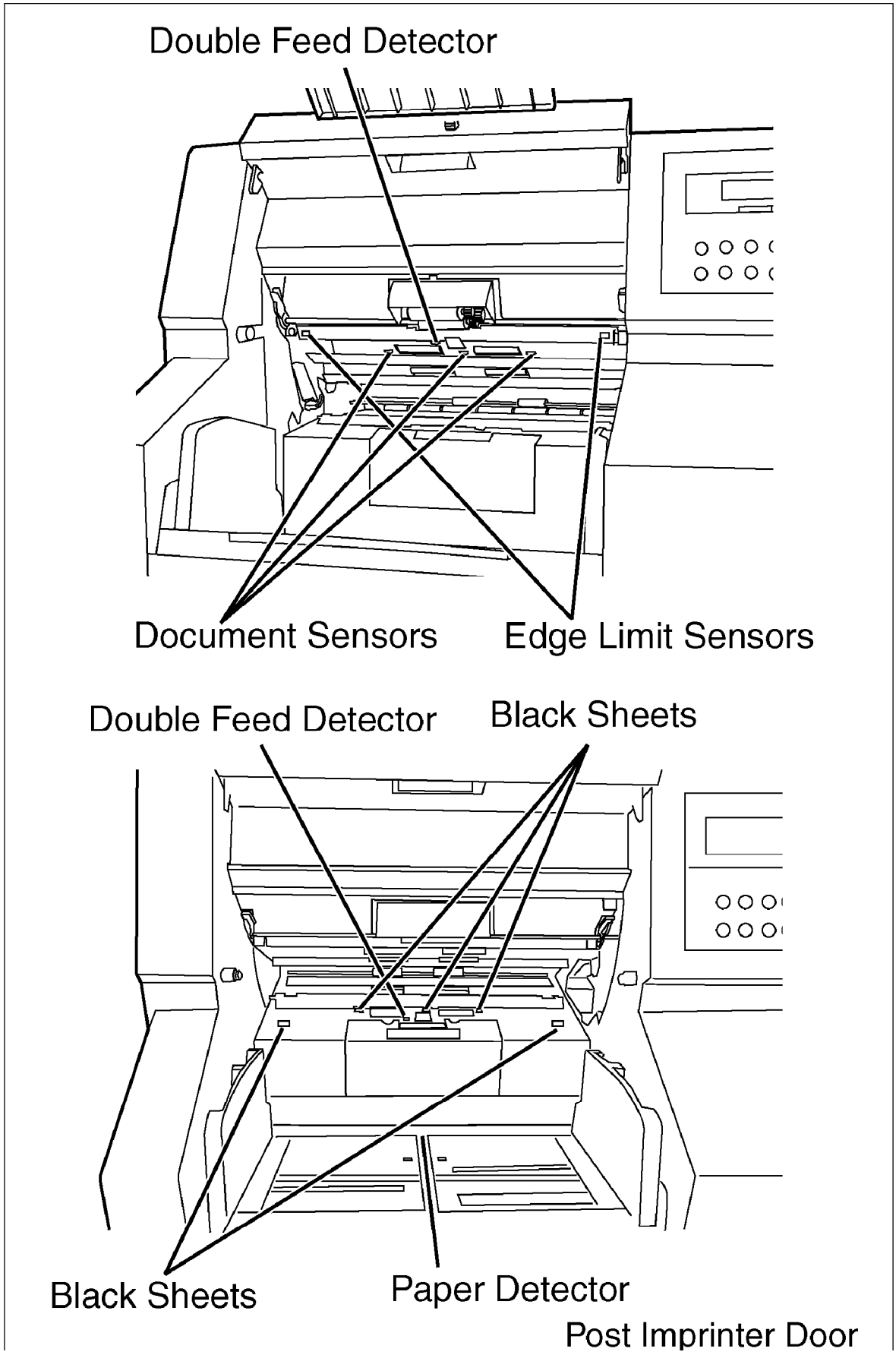
2. Using your hand, pull the Front Door Release towards you.

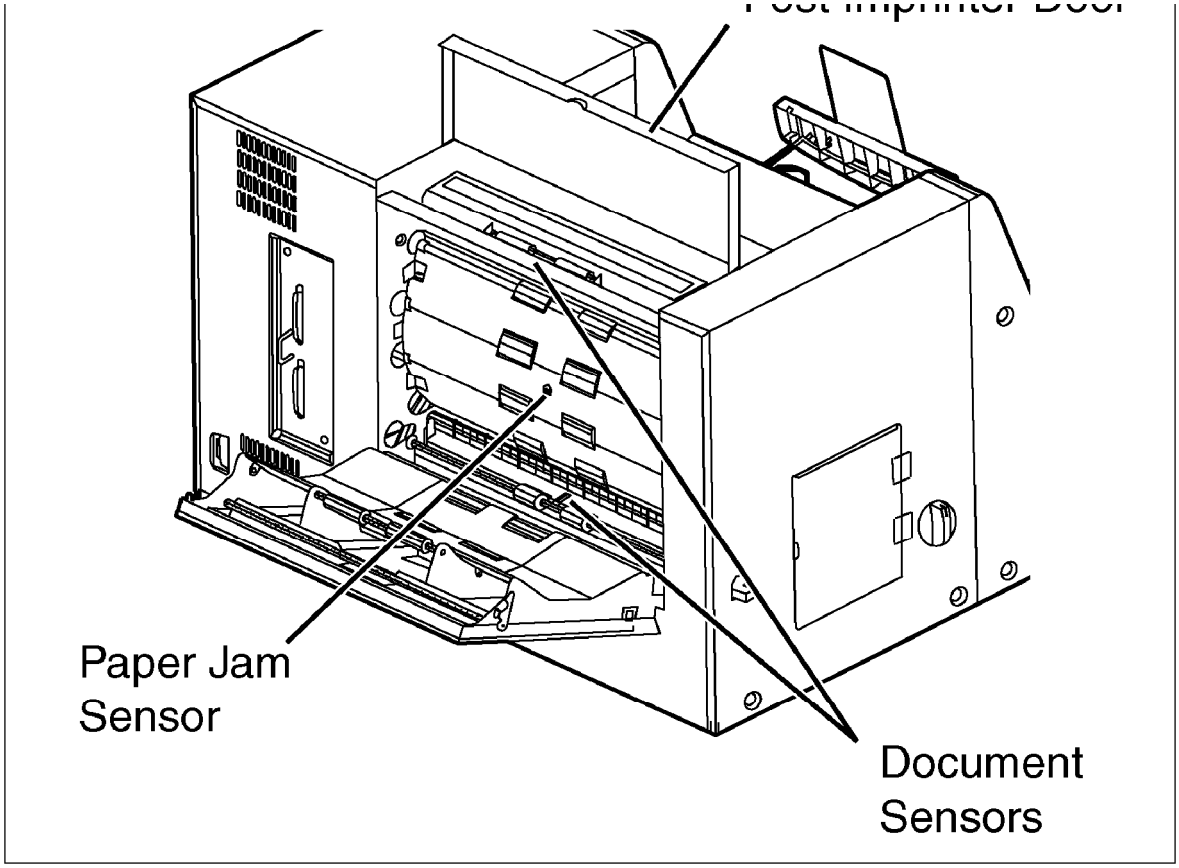
Note
The Front Door now opens slowly.

3. Remove the dirt on the Document Sensors, Edge Limit Sensors, Black Sheets, Double Feed Detector, and Paper Detector with the included blower.

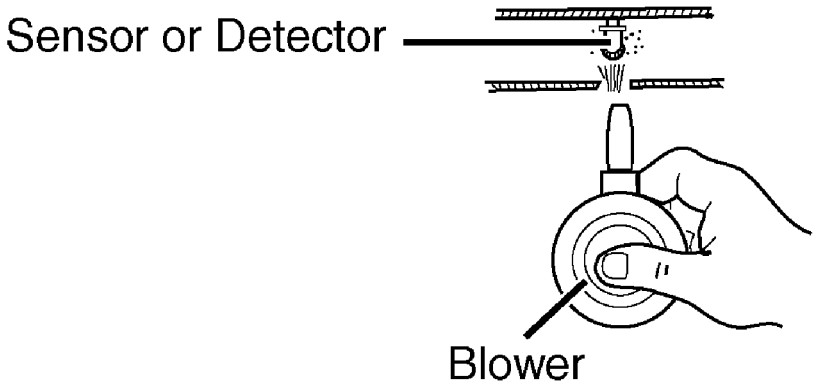
4. Open the Back Door by pulling the Back Door Release, and open the Post Imprinter Door.

5. Also remove the dirt on the Document Sensors and Paper Jam Sensor with included blower.


Double Feed Detector
Document Sensors
Edge Limit Sensors
Double Feed Detector
Black Sheets
Black Sheets
Paper Detector
Post Imprinter Door



How to clean the Document Sensor, Double Feed Detector or Paper Detector. Remove the brush and blow off the dirt through each hole of the sensors and detectors.



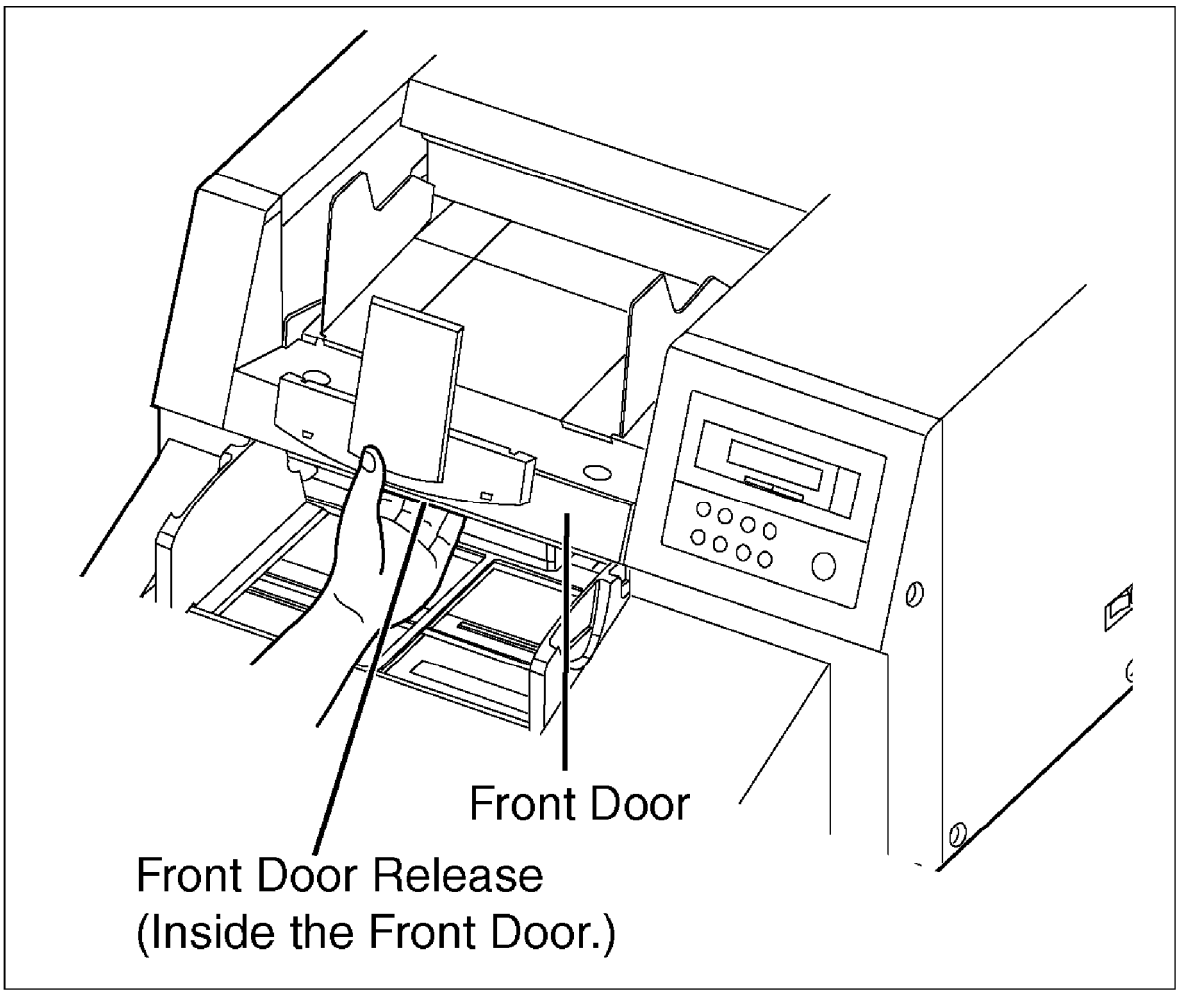
7.5. Replacing Limited Life Parts

7.5.1. Replacing the Paper Feed Roller Module

1. Turn the power off.

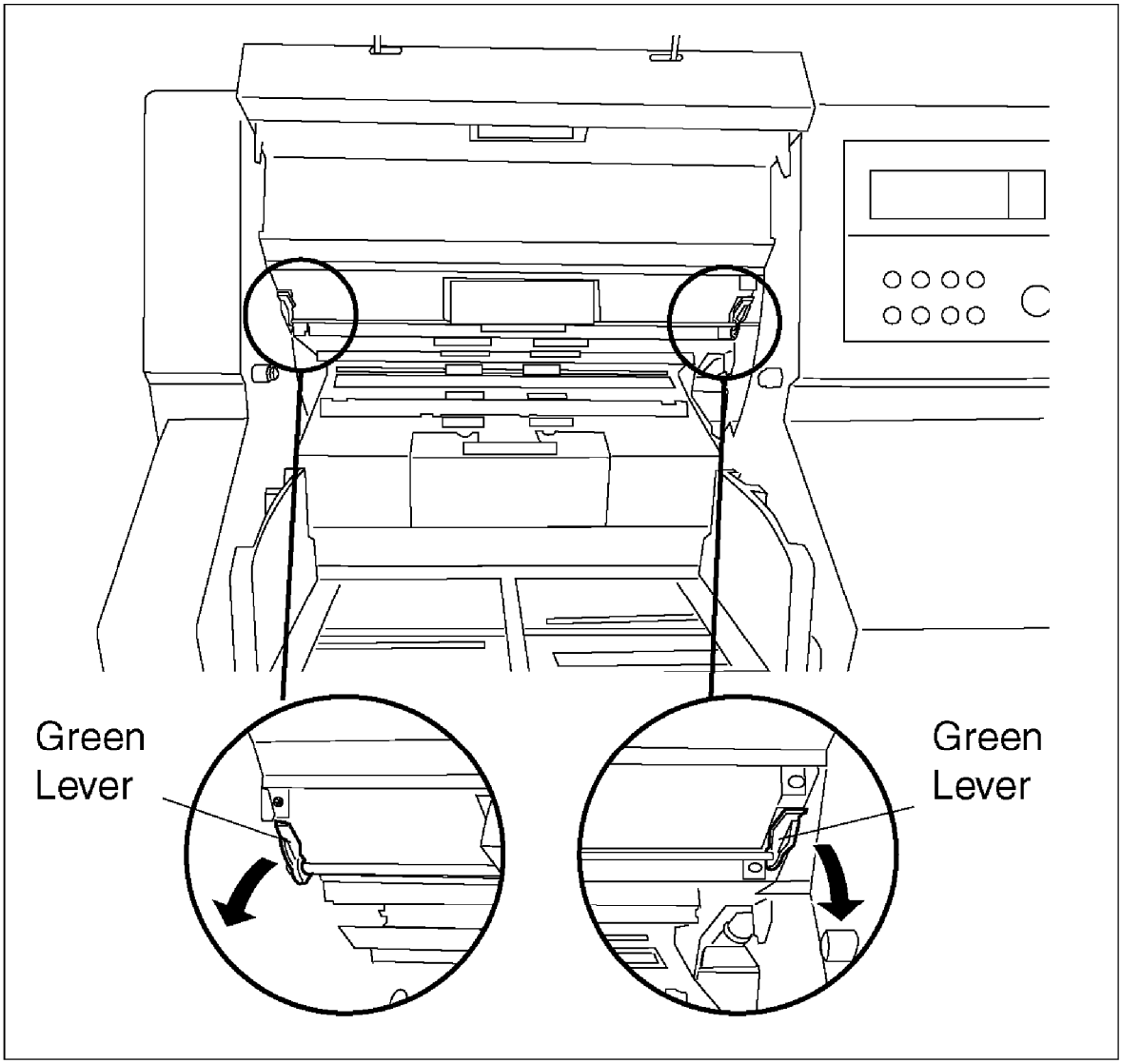
2. Using your hand, pull the Front Door Release towards you.

Note
The Front Door now opens slowly.



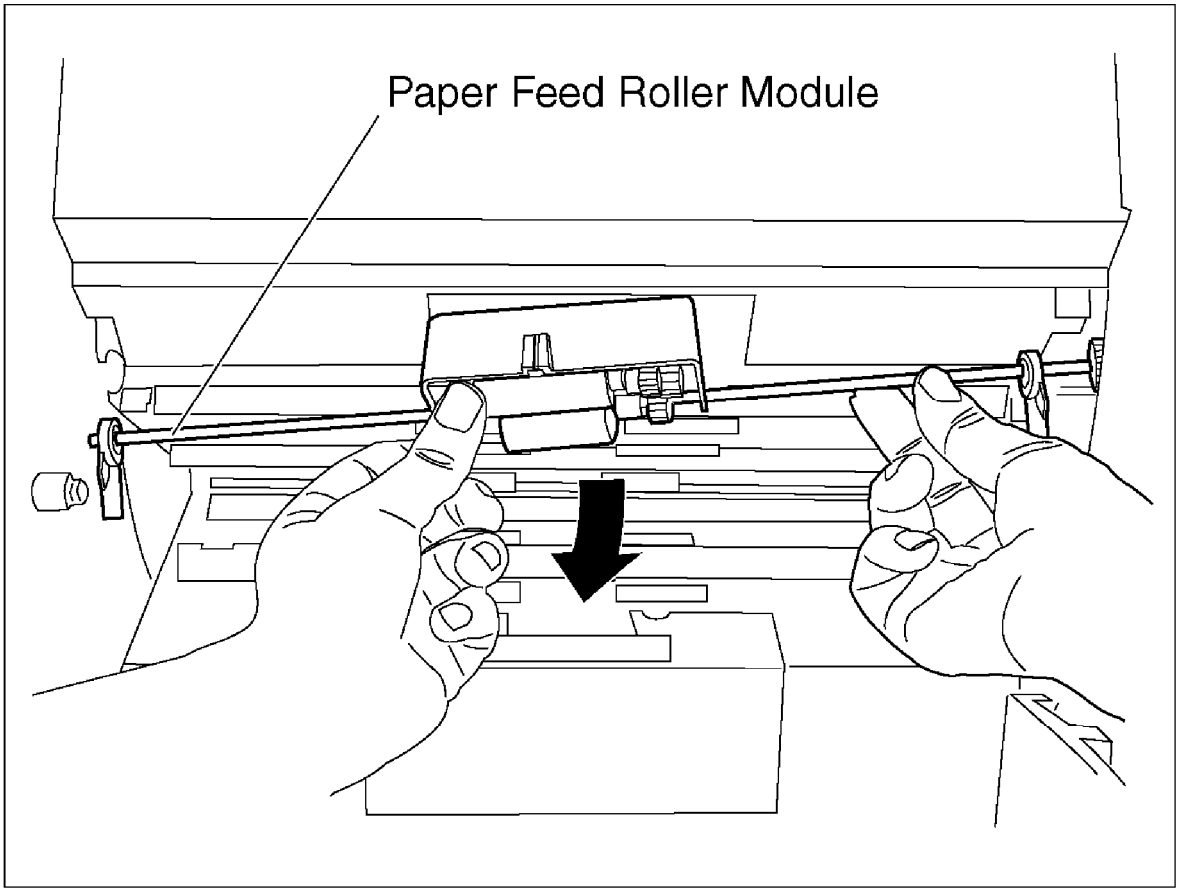
3. Use your fingers to push down the two Green Levers at both ends of the Paper Feed Roller Module.

Note
When moving the Green Levers, do not apply pressure in any other direction than the arrows. Otherwise, they may be broken.



4. Remove the Paper Feed Roller Module by removing its bearing from the guide groove of the Chassis in the Scanner.

5. Open the optional “Roller Exchange Kit” (KV-SS012), and take out the Paper Feed Roller Module.

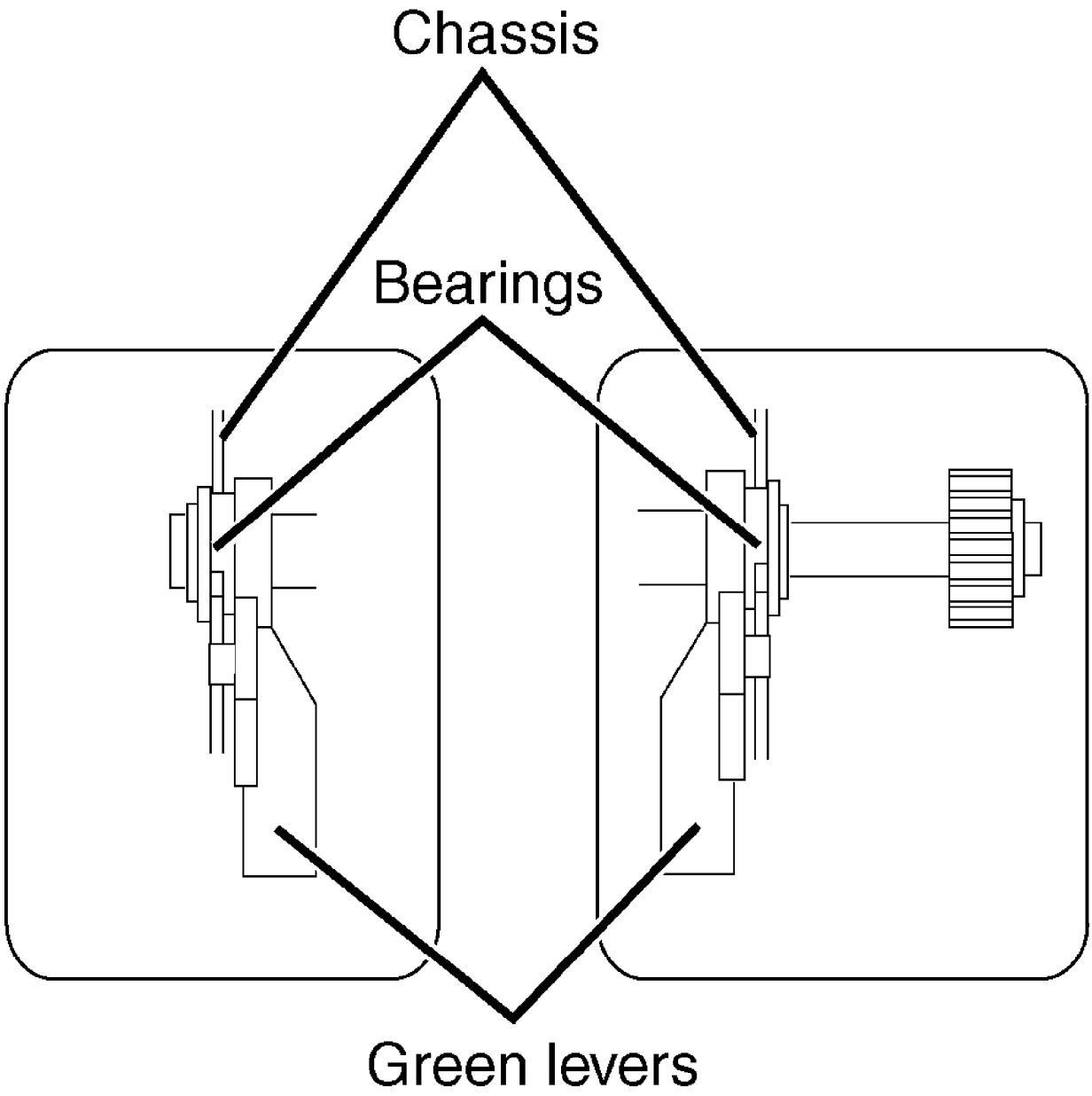


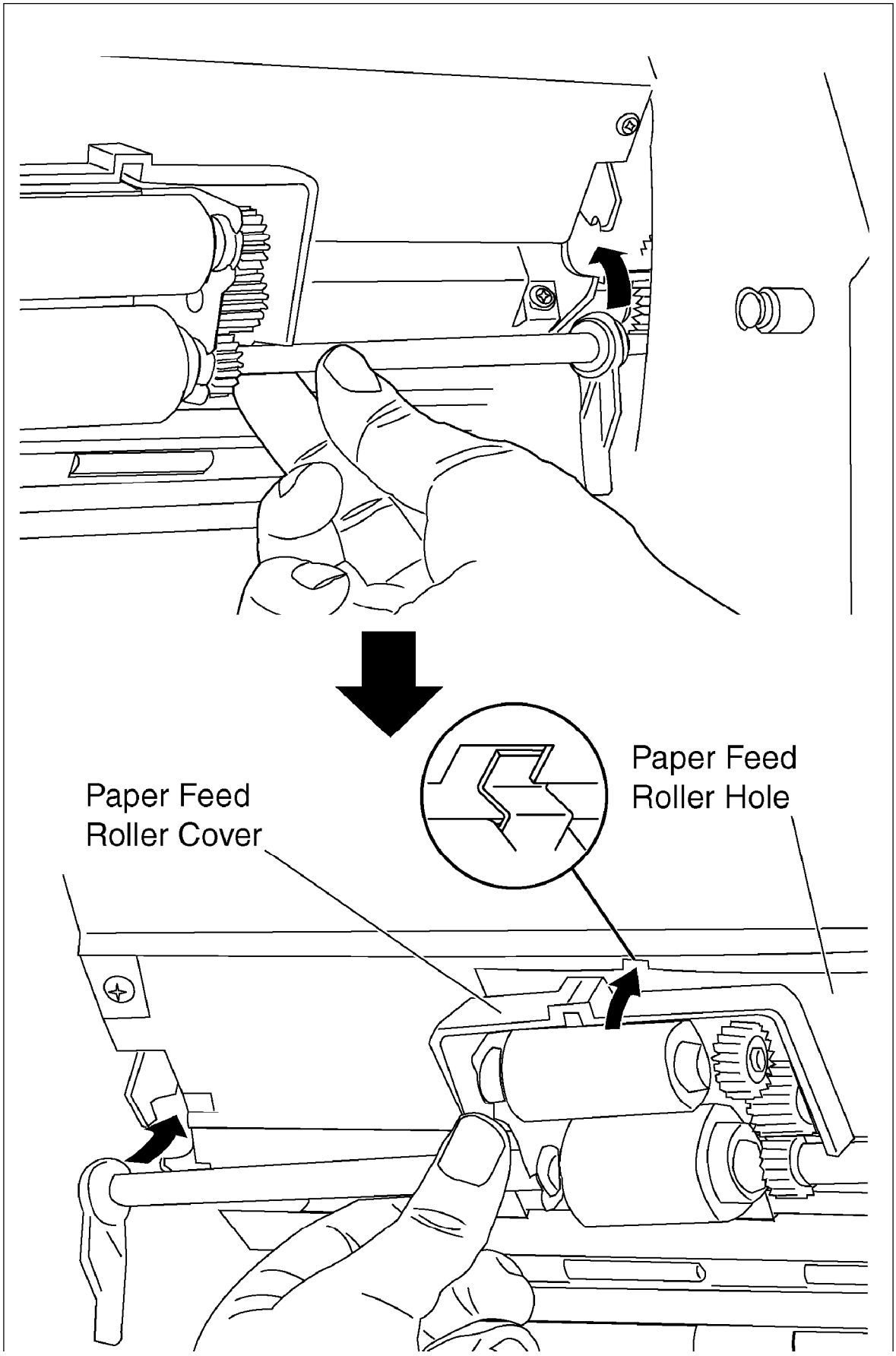
6. Install the new Paper Feed Roller Module with its gear to the right.

Note

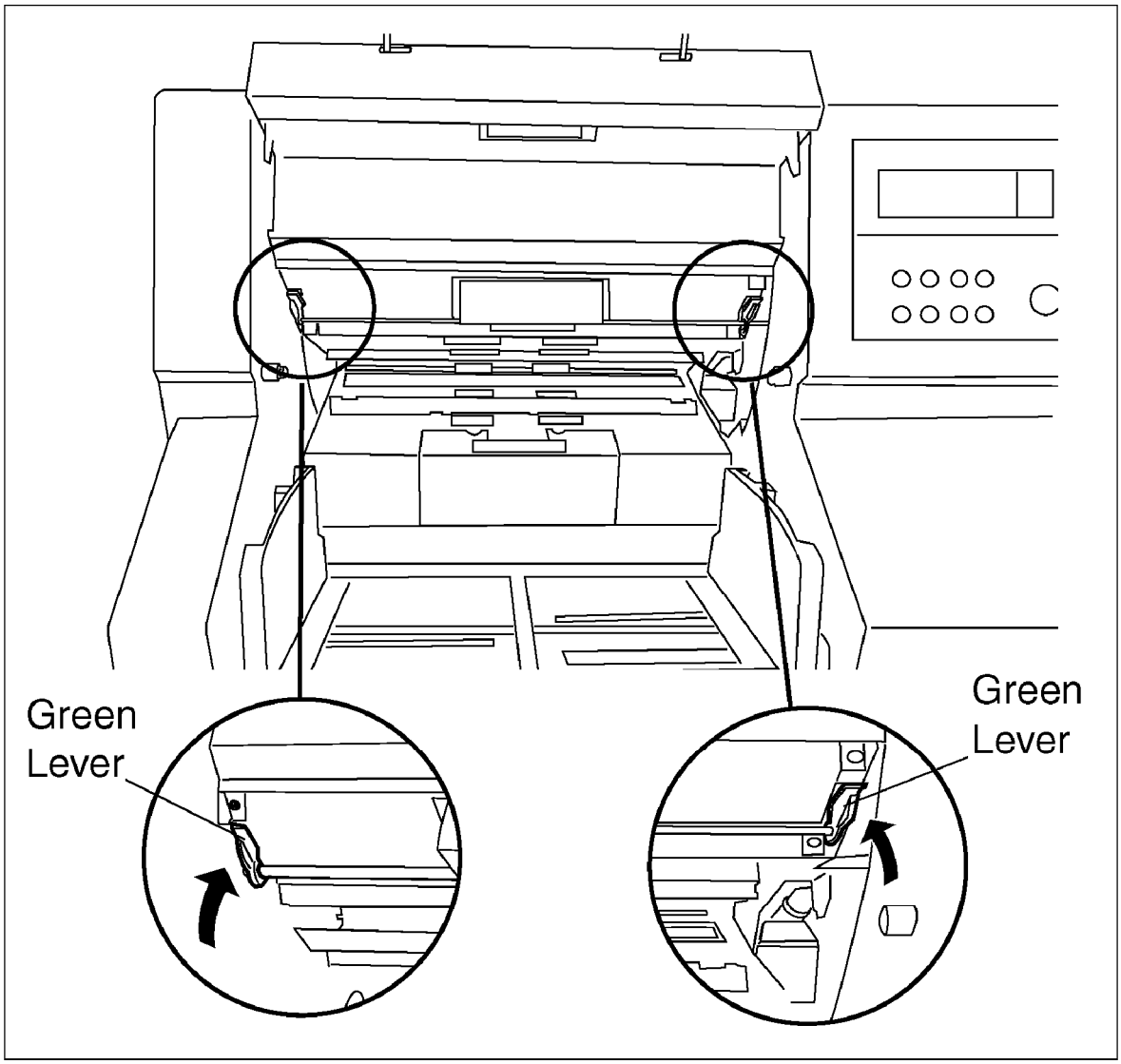
- Attach the bearings at both ends of the Paper Feed Roller Module into the guide grooves of the chassis in the Scanner.

- Insert the Paper Feed Roller Cover into the Paper Feed Roller Hole before attaching the bearing into the grooves of the chassis.


Chassis
Bearings
Green levers

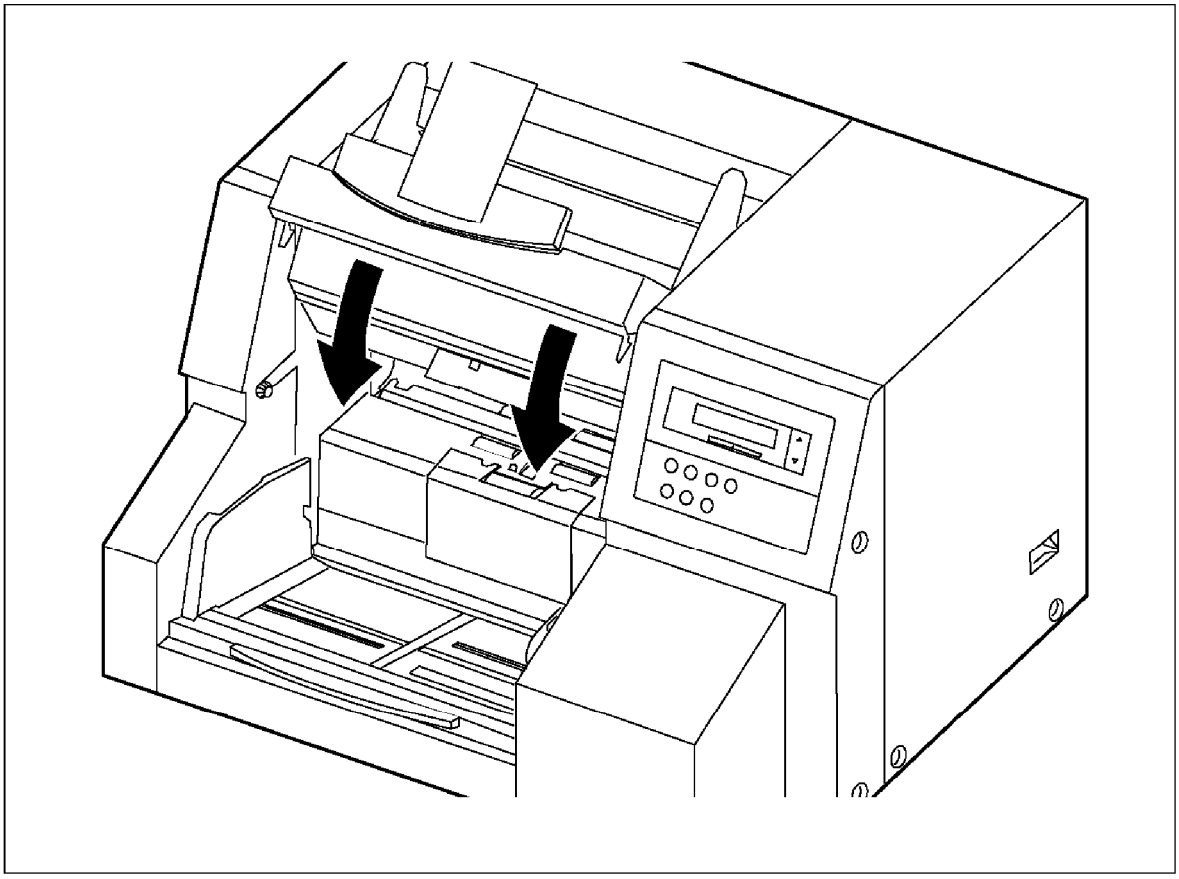

Paper Feed
Roller Cover
Paper Feed
Roller Hole

7. Push up the Green Levers at both ends in the direction of the arrow until they click into position.



8. Close the Front Door.

Note
Push the Front Door down slowly until it clicks into position.

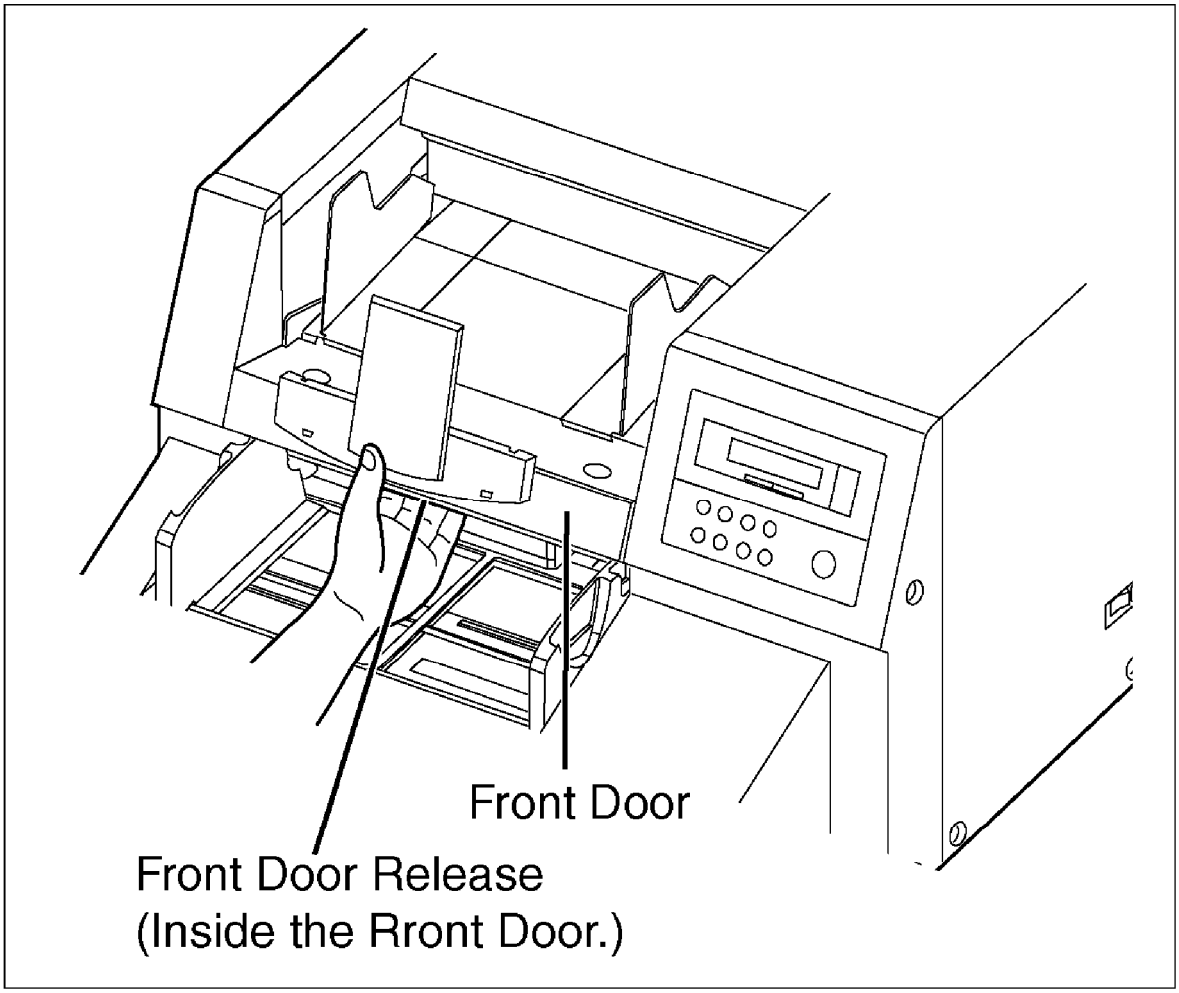


7.5.2. Replacing the Retard Roller Module

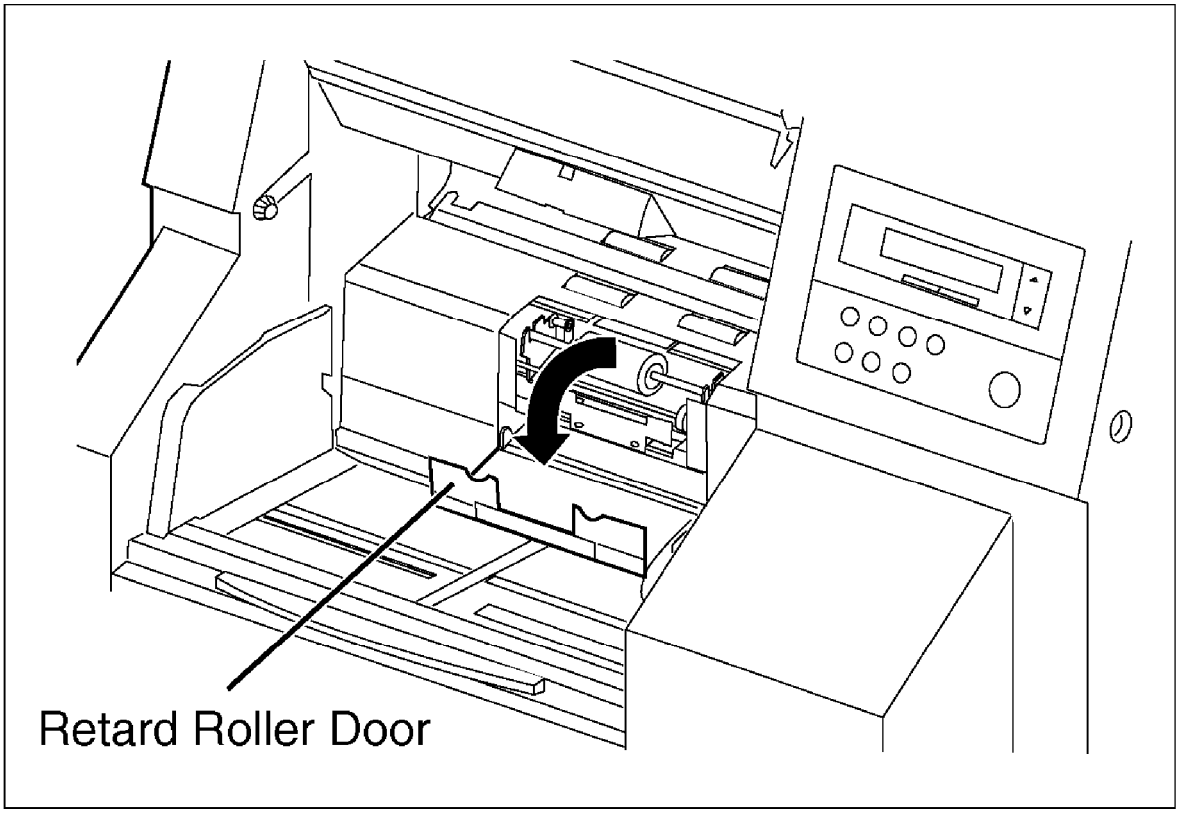
1. Turn the power off.

2. Using your hand, pull the Front Door Release towards you.

Note
The Front Door now opens slowly.

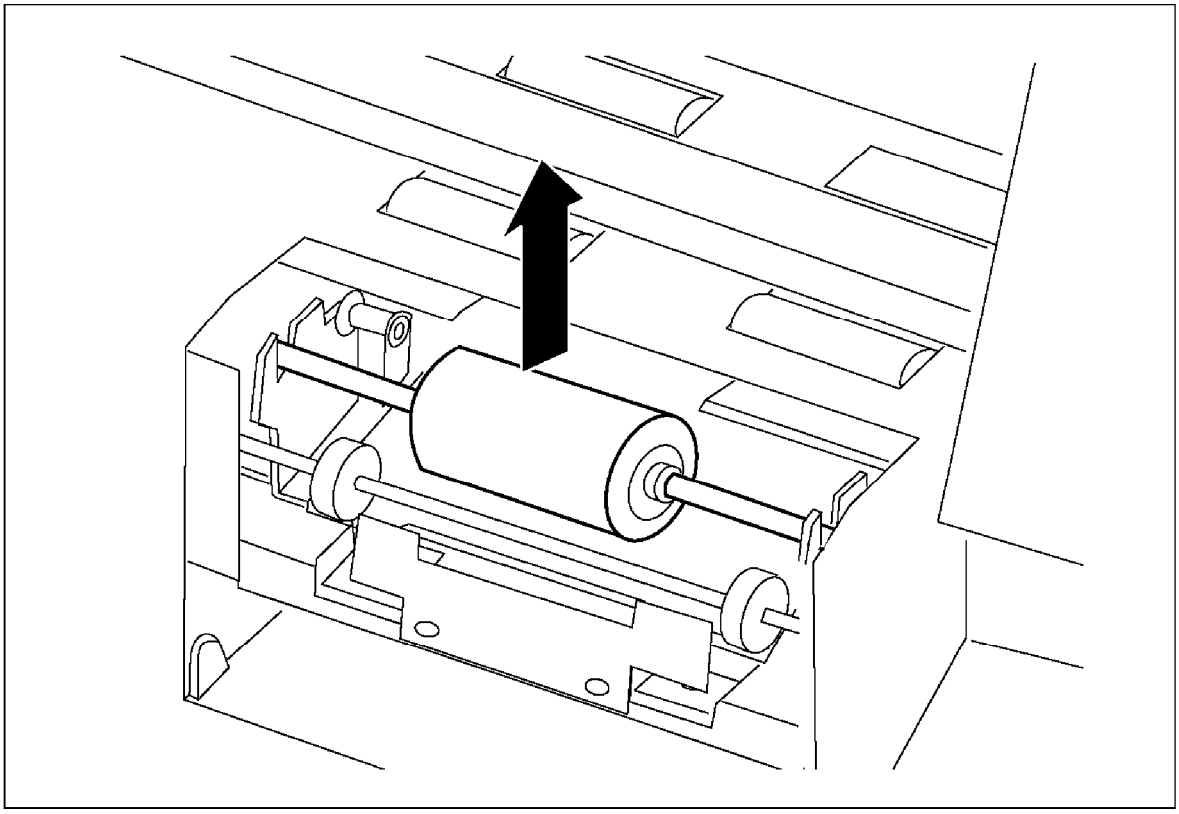


3. Use your fingers to pull the Retard Roller Door toward you.

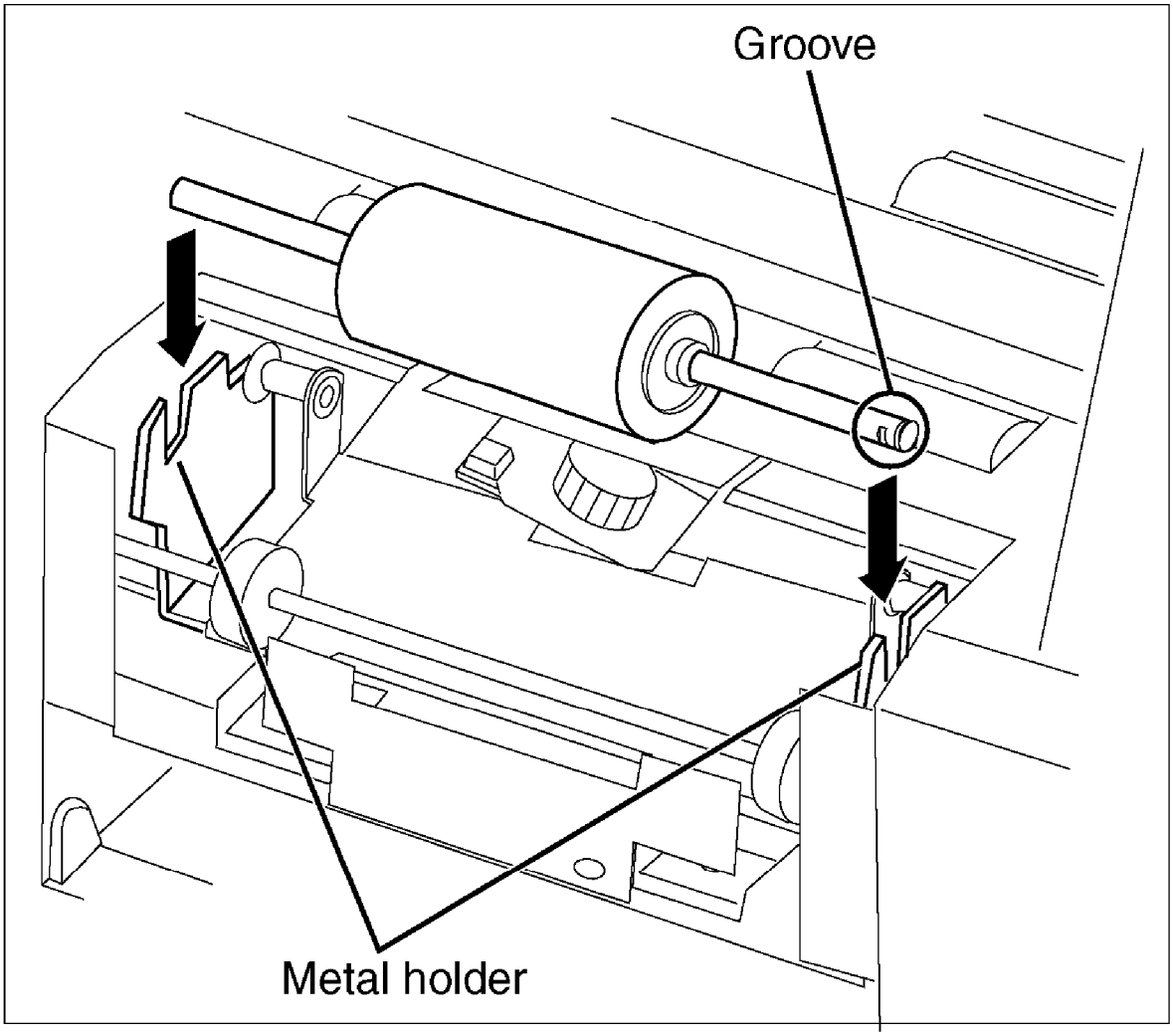


4. Use your fingers to pull up the Retard Roller Module in the direction of the arrow.

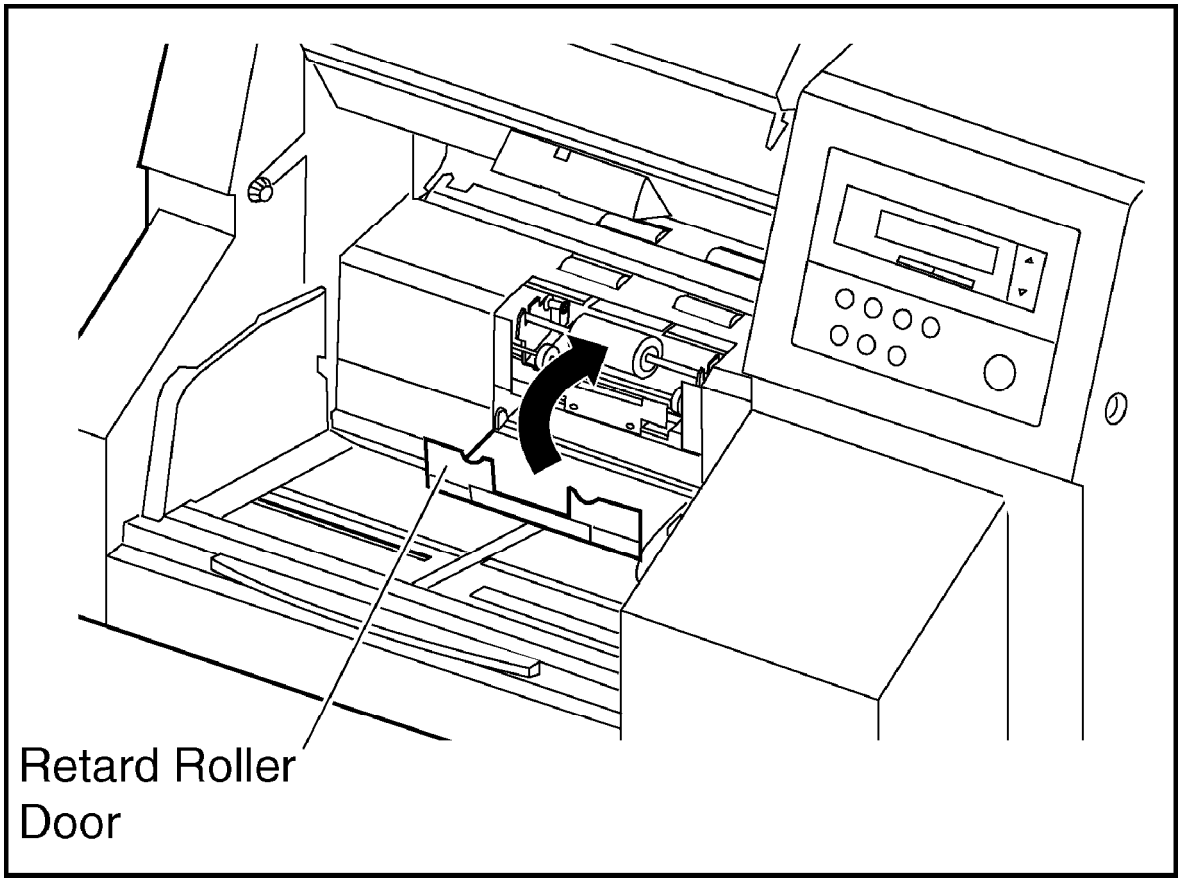
5. Take out the Retard Roller Module in the “Roller Exchange Kit (KV-SS012)”.



6. Install the new Retard Roller Module with the groove of its shaft on the right and match it to the groove on the right side of the metal holder.



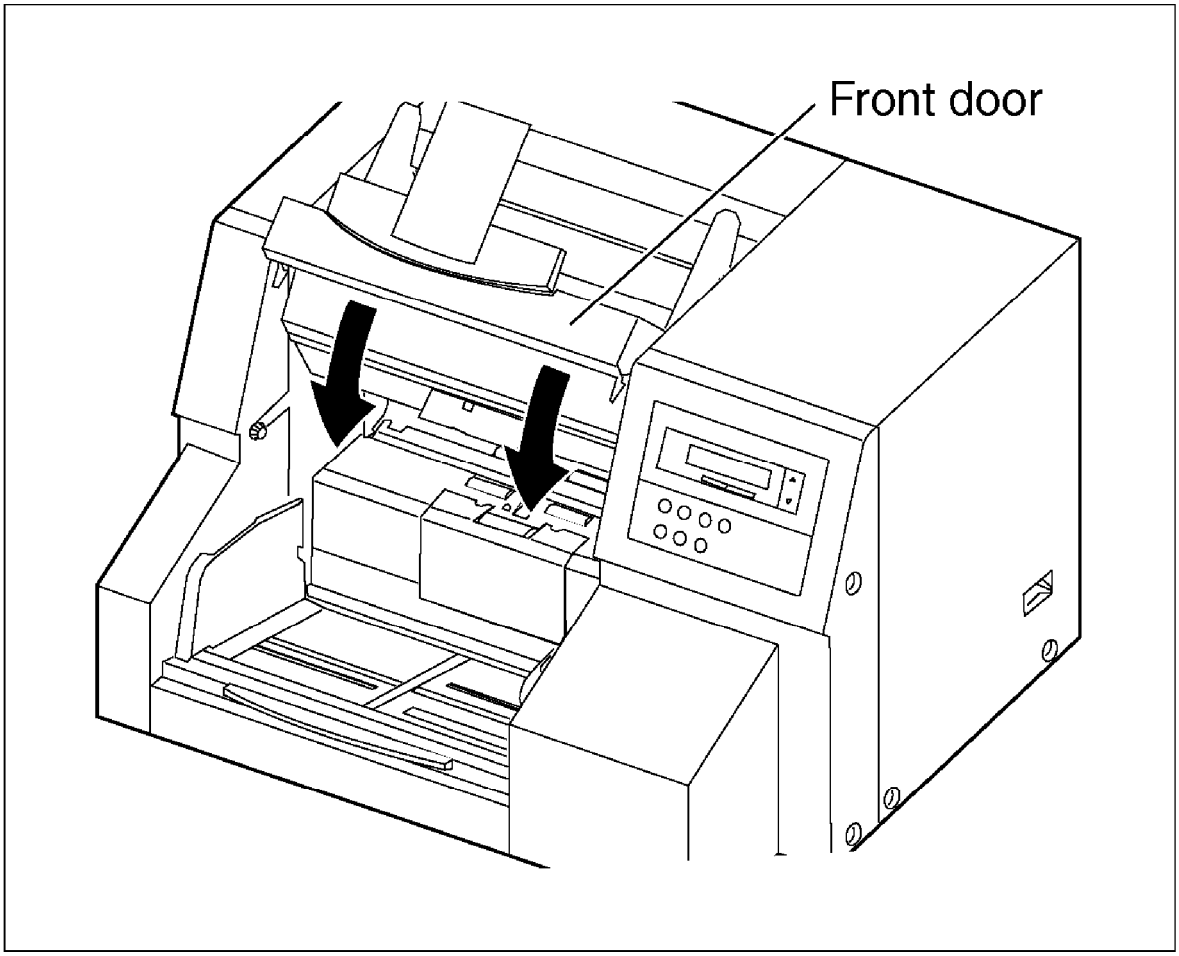
7. Close the Retard Roller Door.



8. Close the Front Door.

Note

- Push down the Front Door slowly until it clicks into place.

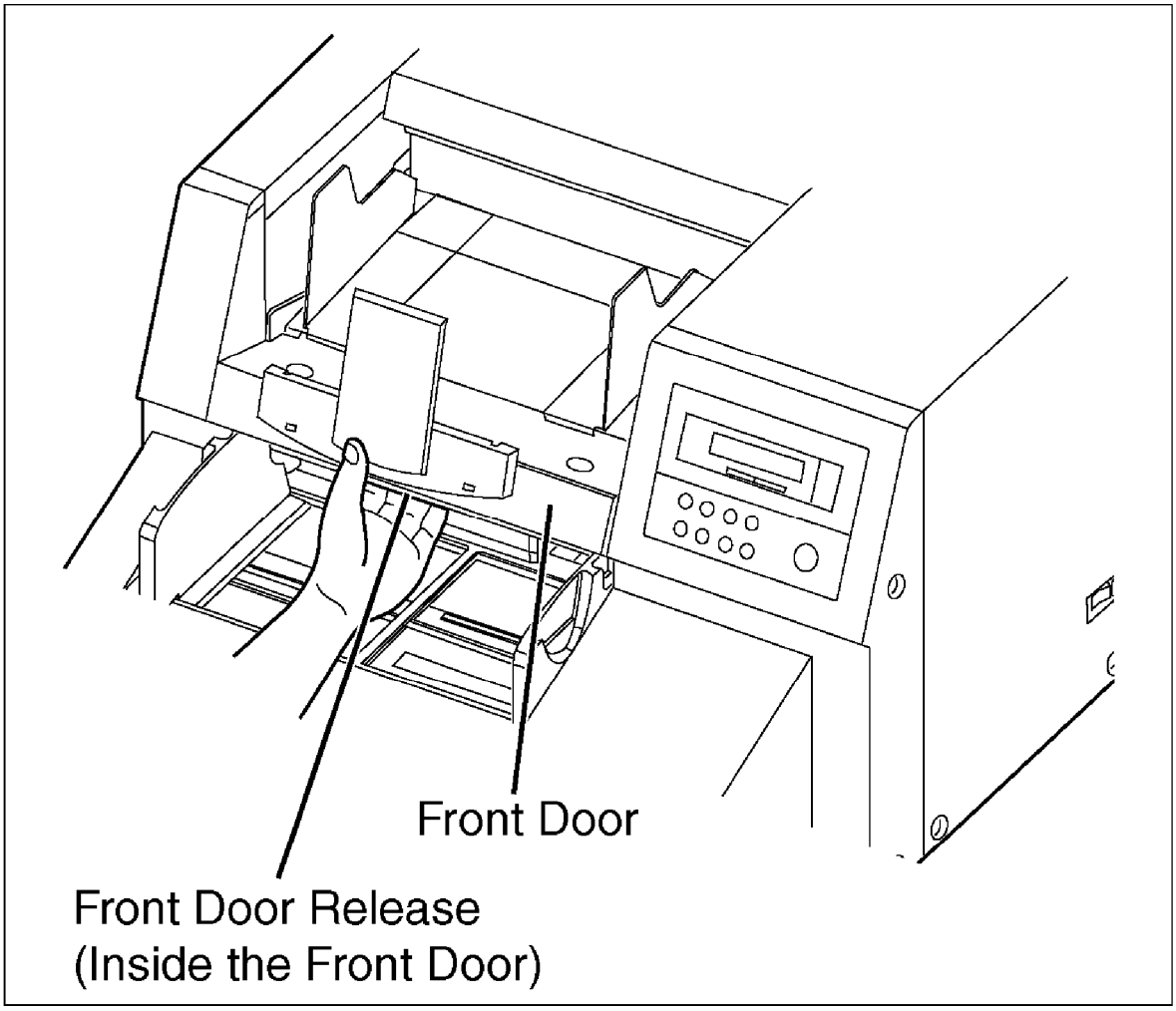


7.5.3. Replacing the Retard Pad

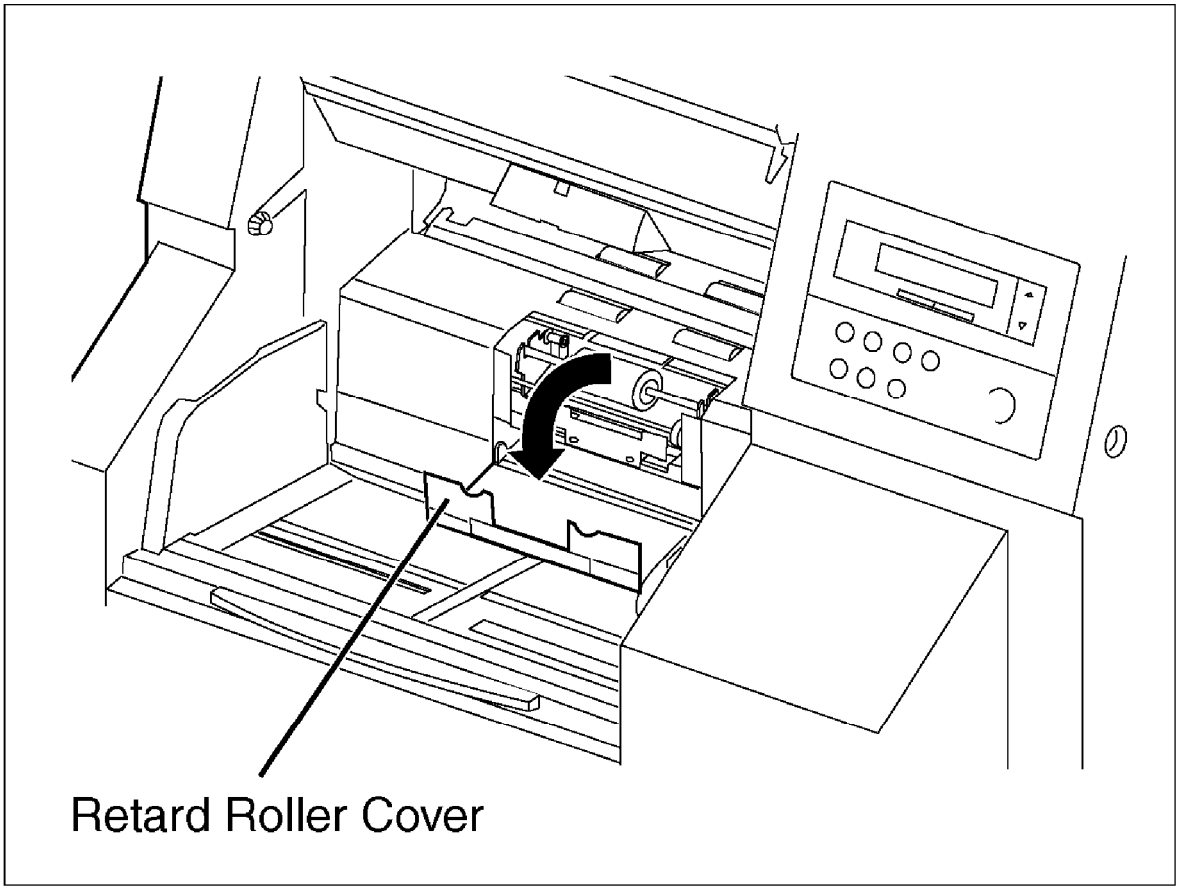
1. Turn the power off.

2. Using your hand, pull the Front Door Release towards you.

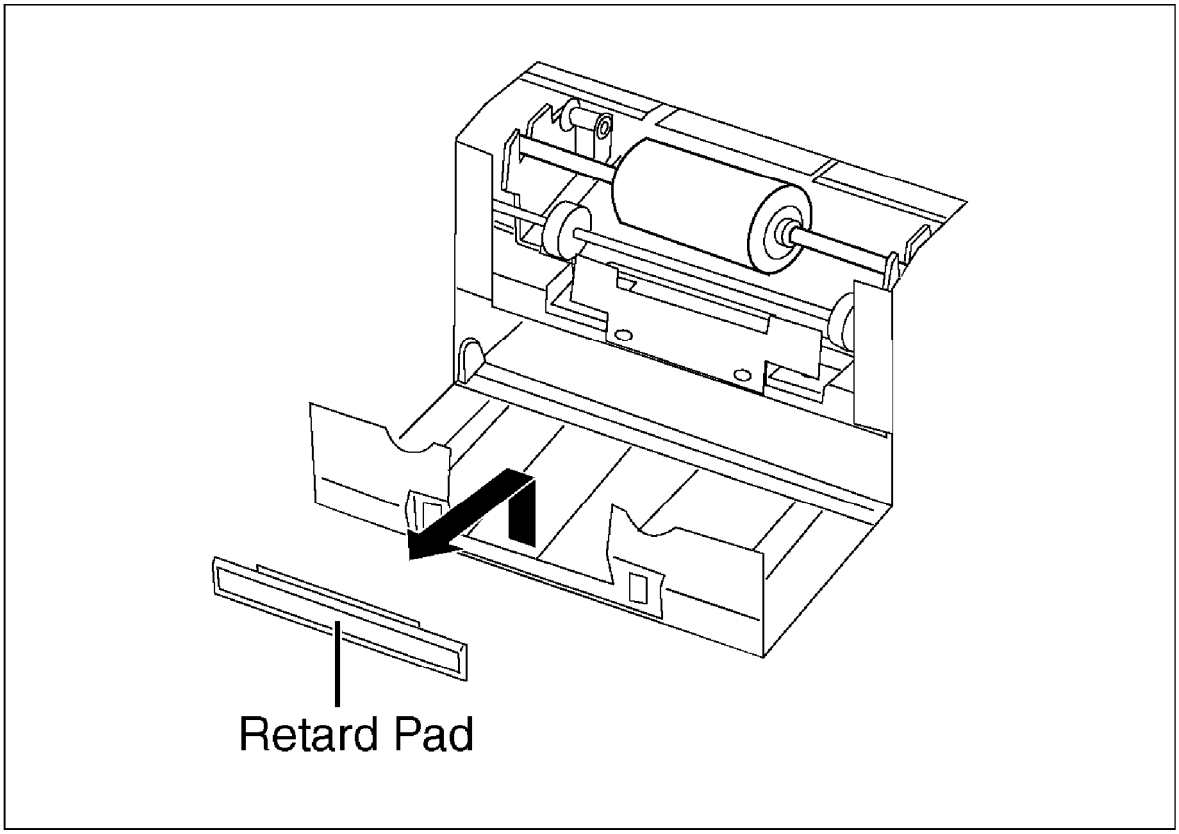
- The Front Door now opens slowly.



3. Using your fingers, open the Retard Roller Cover.

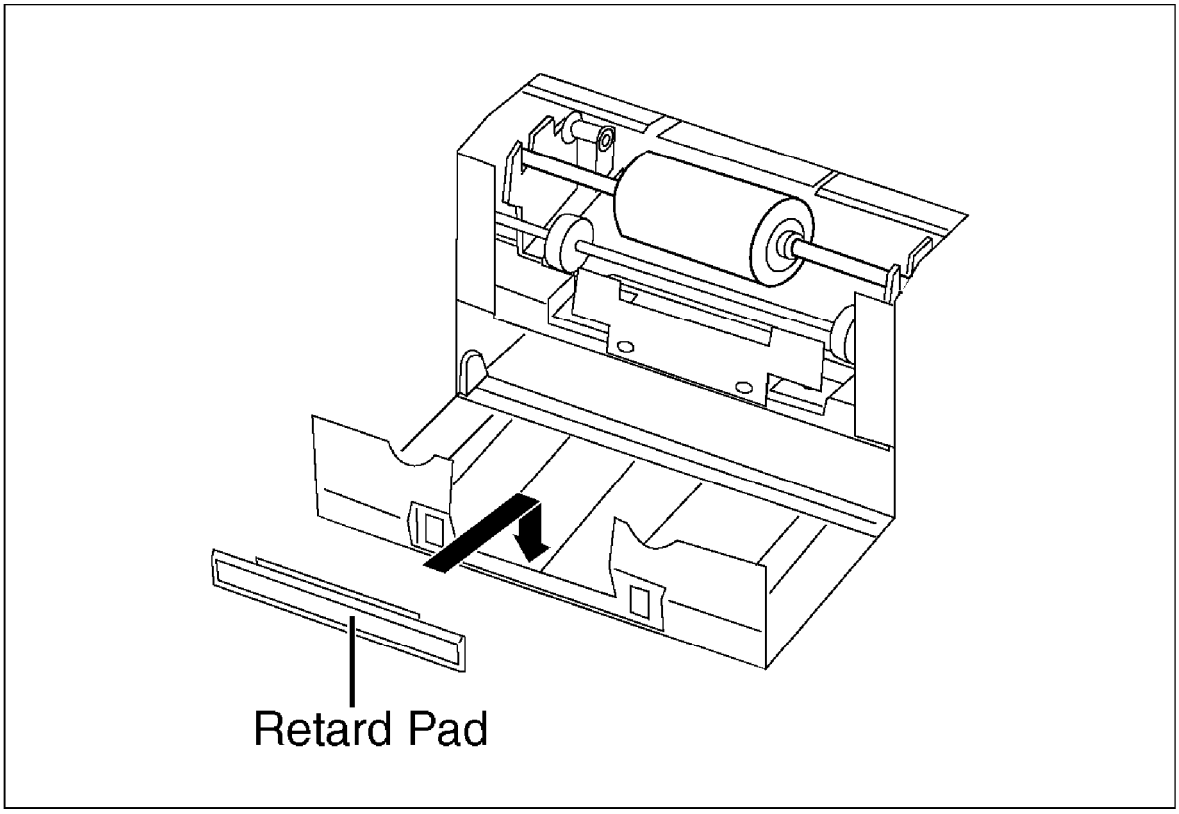


4. Pull and remove the Retard Pad in the direction of the arrow.

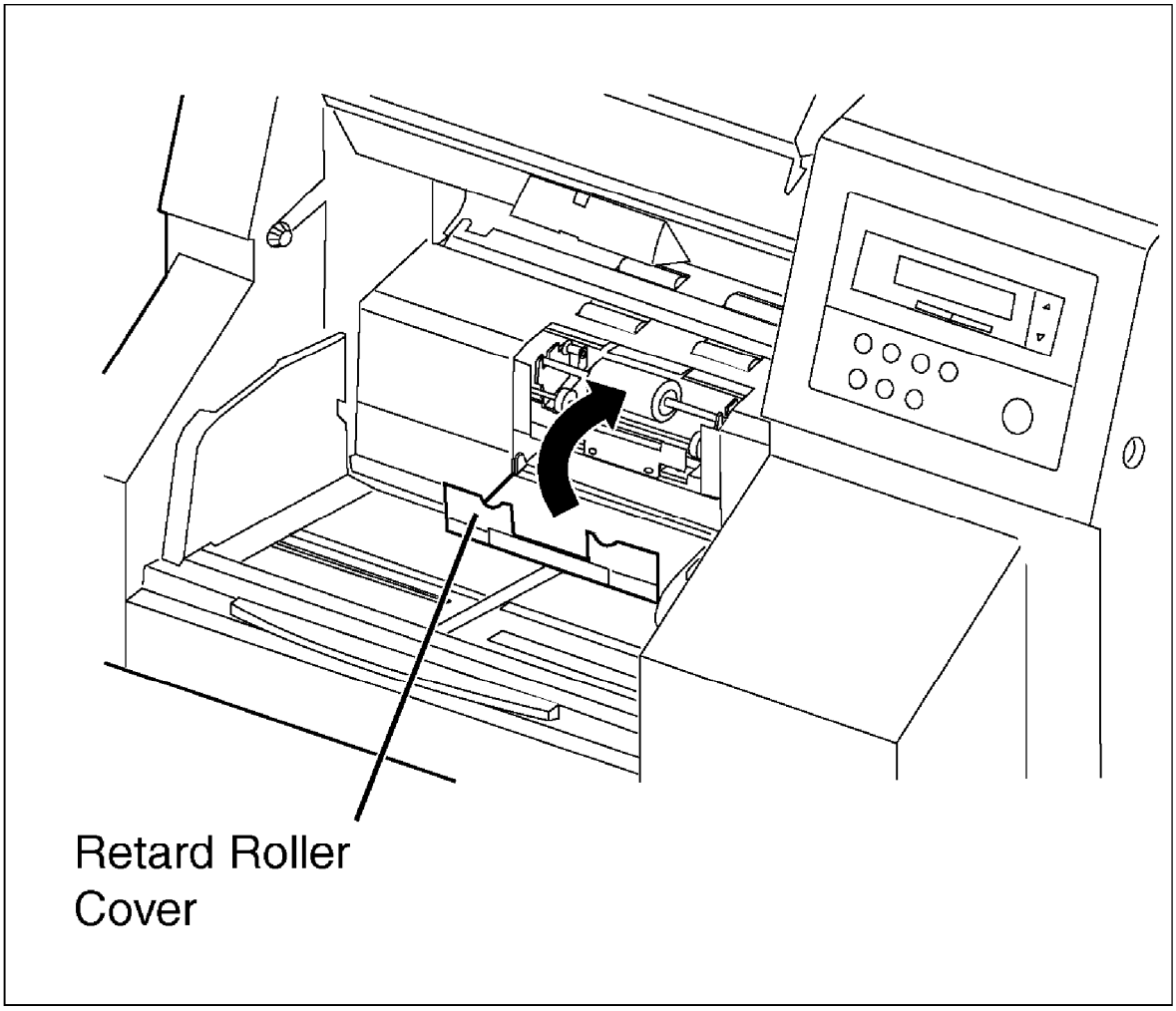


5. Open the "Roller Exchange Kit" (KV-SS012), and take out the new Retard Pad.

6. Install the new Retard Pad in the direction of the arrow until it is locked.



7. Close the Retard Roller Cover.

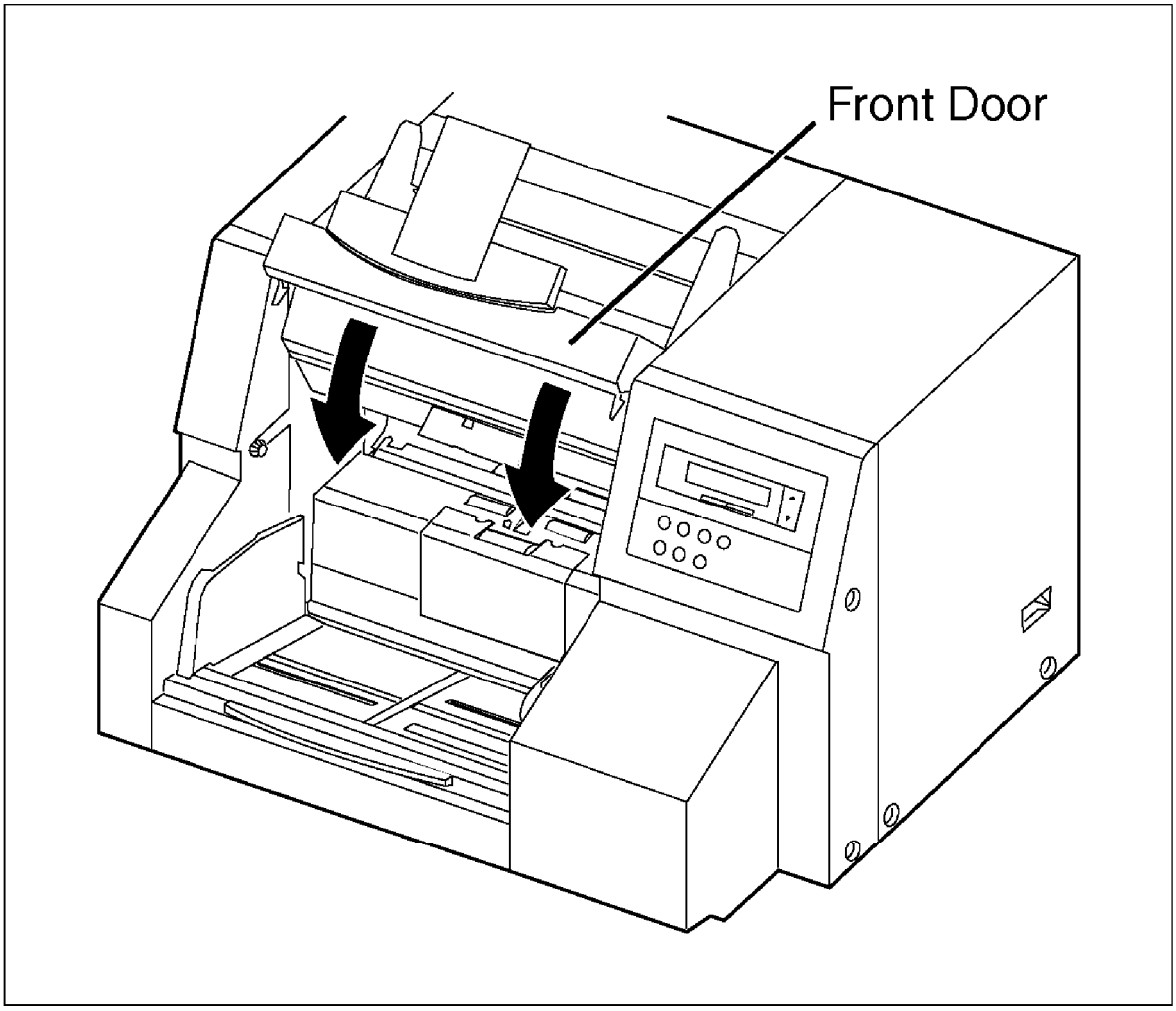


8. Close the Front Door.

Note

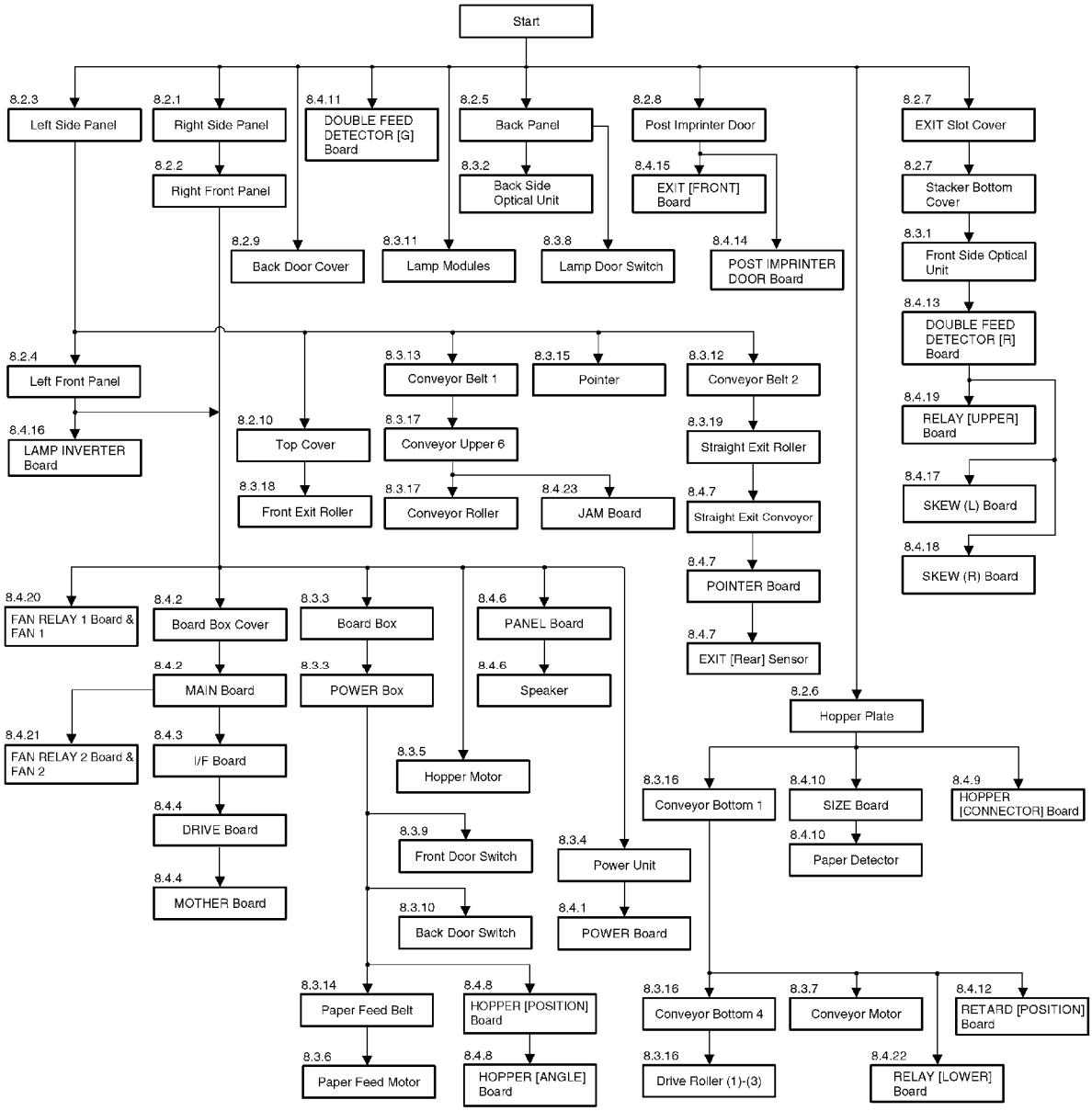
- Push down the Front Door slowly until it clicks into place.

- After replacing the Paper Feed Roller Module, the Retard Roller Module, and the Retard Pad, clear warning for “Replace Roller”, according to 9.5.4.2..



8. DISASSEMBLY INSTRUCTIONS

8.1. Disassembly Flowchart



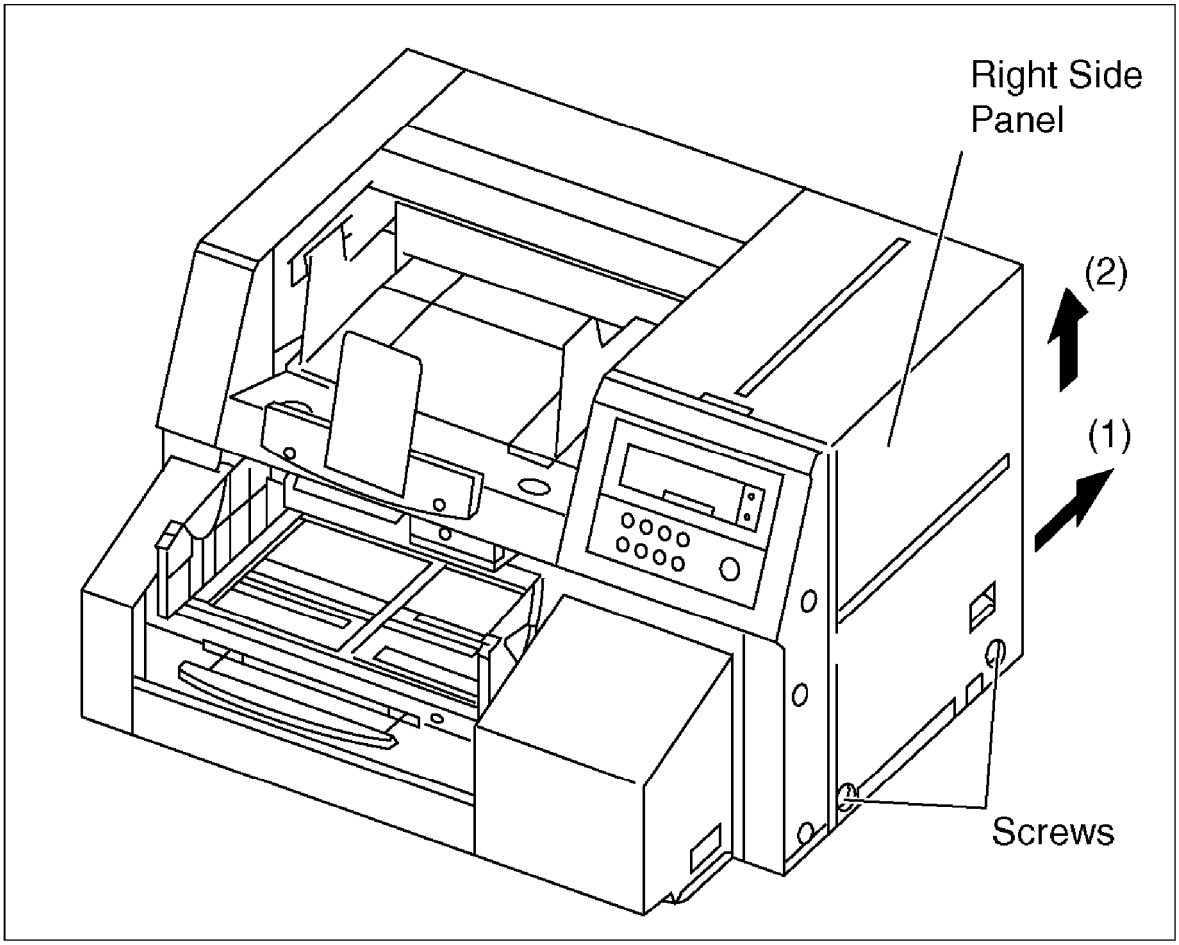
8.2. Exterior

8.2.1. Right Side Panel

1. Remove the 2 screws.

2. Slide the Right Side Panel to backward [approx. 1cm (0.5")] in the direction of the arrow (1).

3. Lift in the direction of the arrow (2) and remove the Right Side Panel.



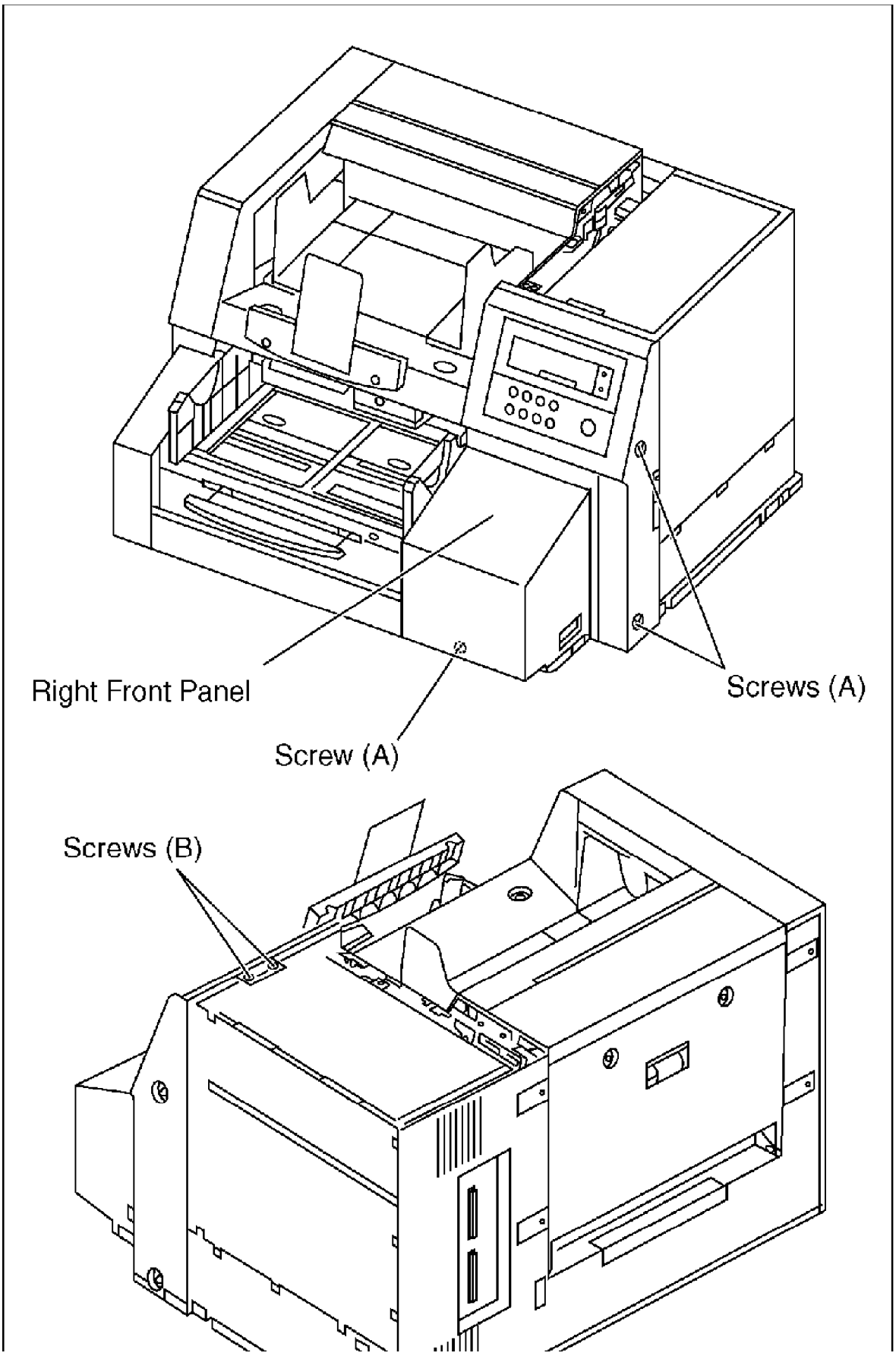
8.2.2. Right Front Panel

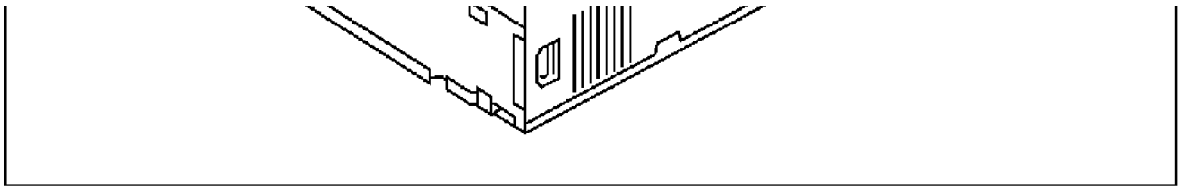
1. Remove the Right Side Panel. (See 8.2.1)

2. Remove the 3 screws (A) and 2 screws (B).

3. Pull the Right Front Panel toward the front of the unit.

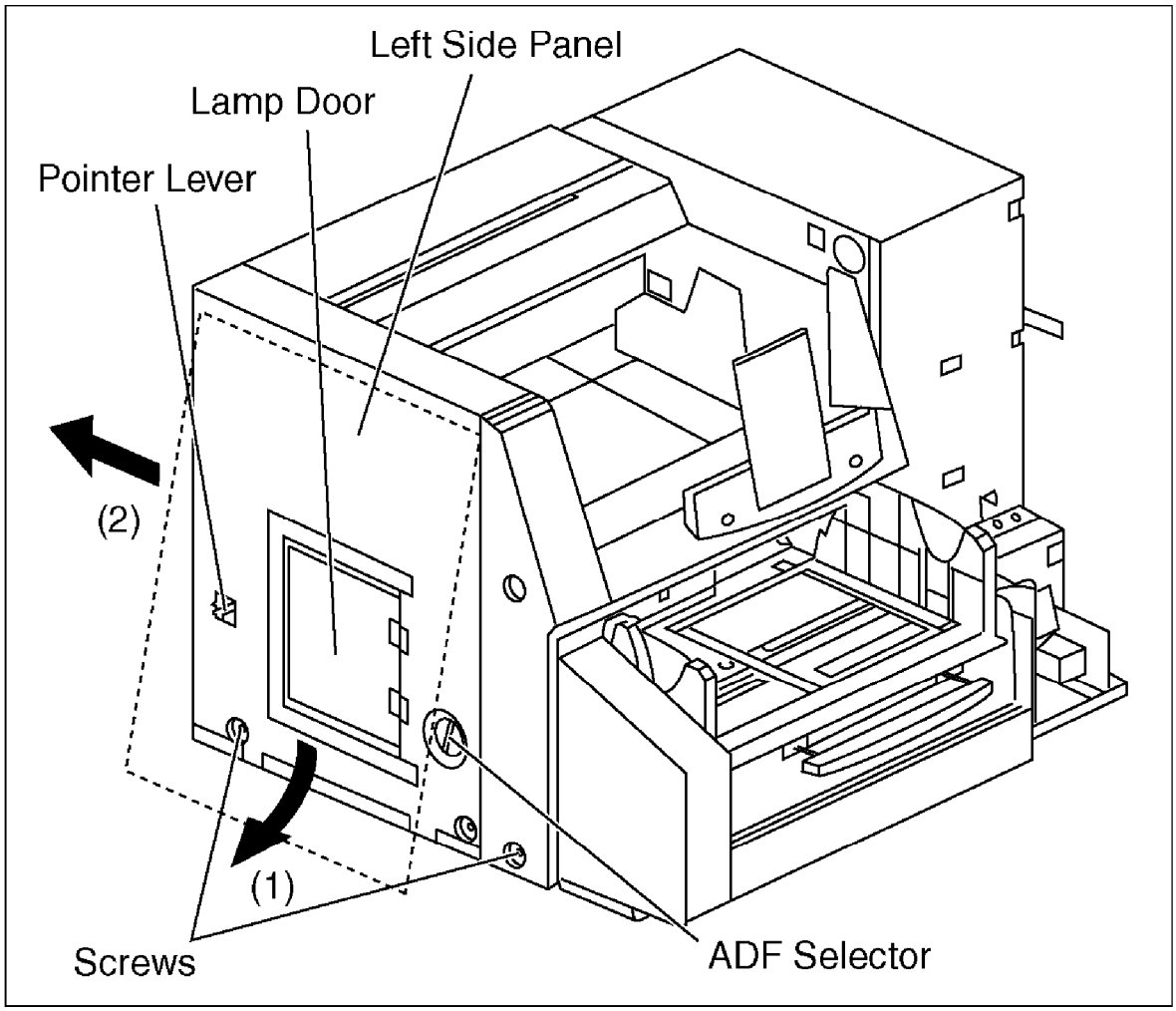
4. Disconnect the CN1 and remove the Right Front Panel.


Right Front Panel
Screws (A)
Screw (A)
Screws (B)



8.2.3. Left Side Panel

1. **Remove the 2 screws.**
2. **Slide the Left Side Panel to backward [approx. 1cm (0.5”)] (in the direction of the arrow (2)), while bending the panel in the direction of the arrow (1)) to avoid contacting to the Pointer Lever.**
3. **Lift and remove the Left Side Panel.**

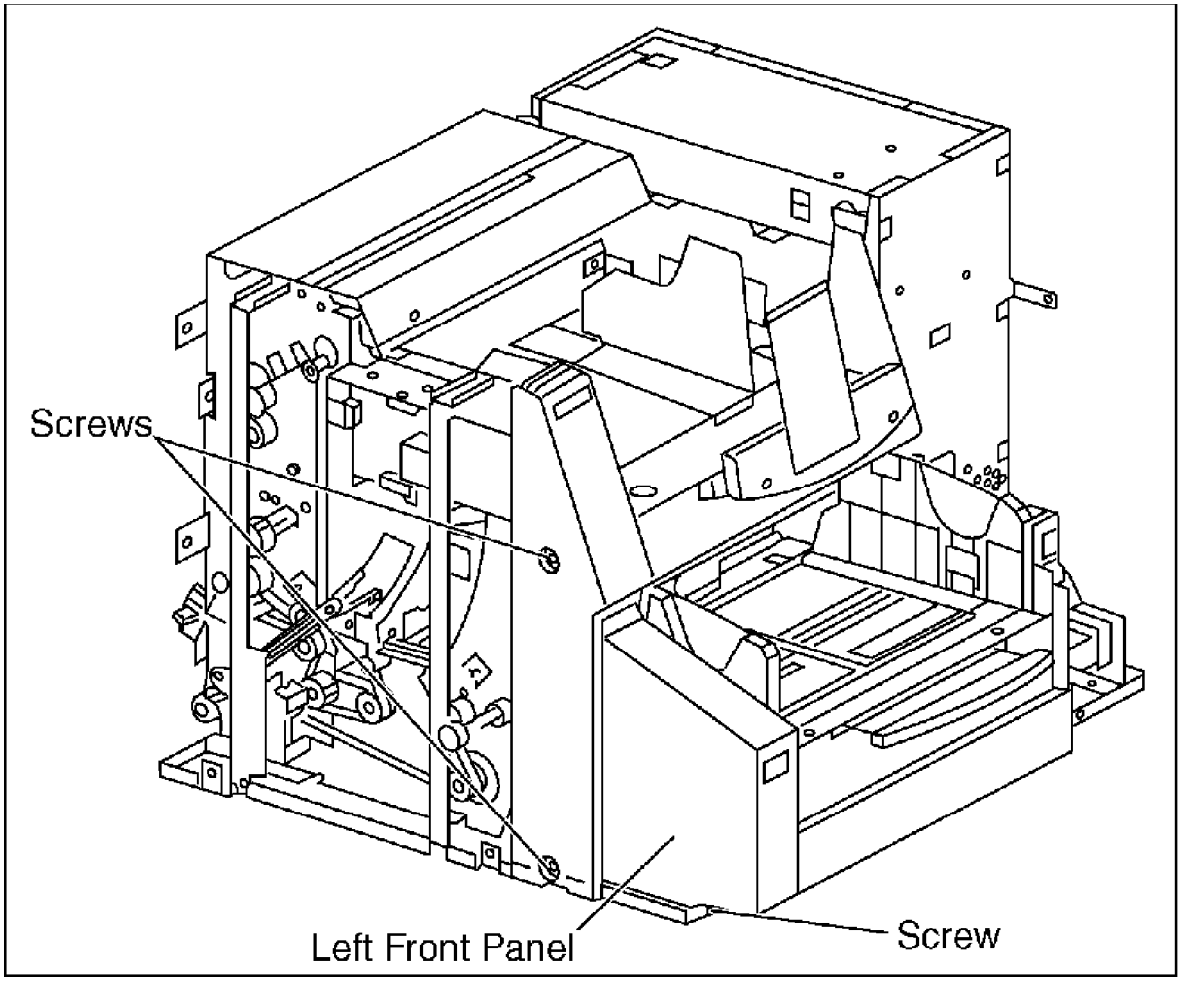


8.2.4. Left Front Panel

1. **Remove the Left Side Panel. (See 8.2.3)**

2. Remove the 3 screws.

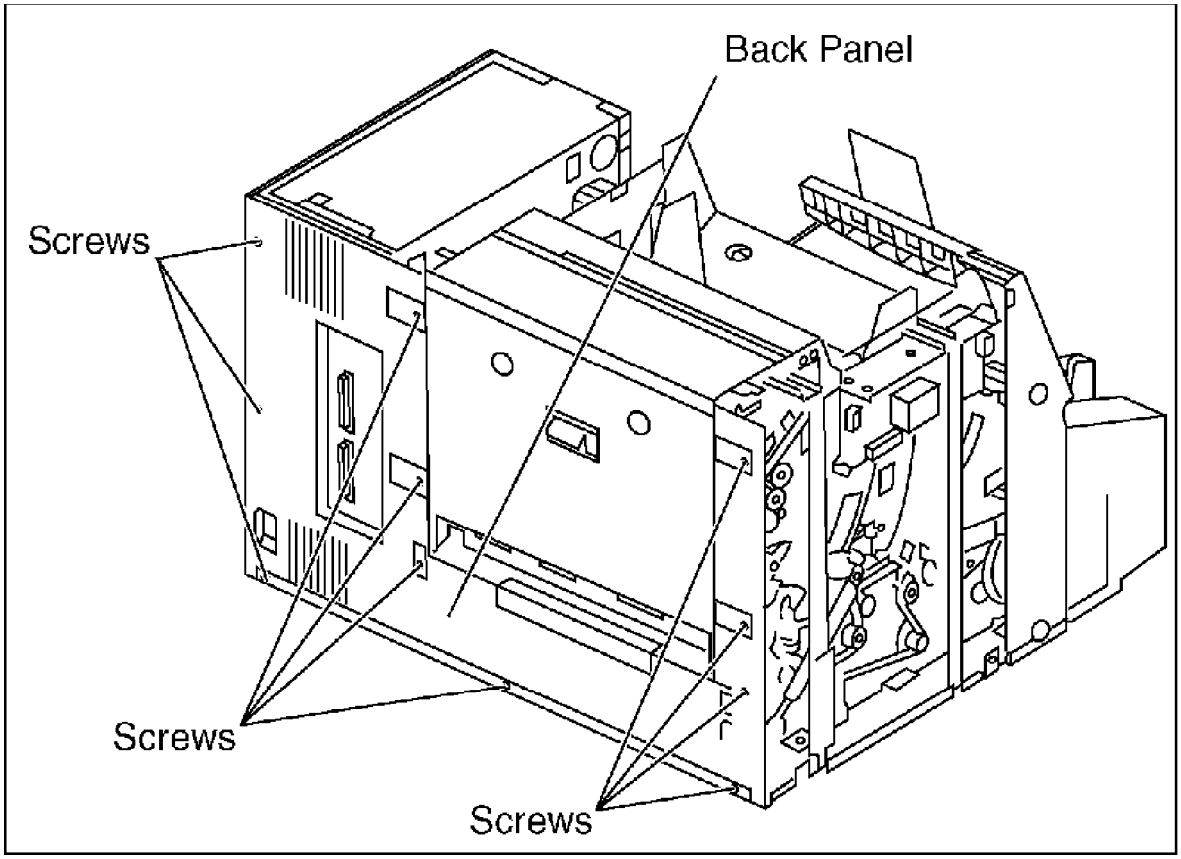
3. Slide the Left Front Panel toward the front of the unit to remove.



8.2.5. Back Panel

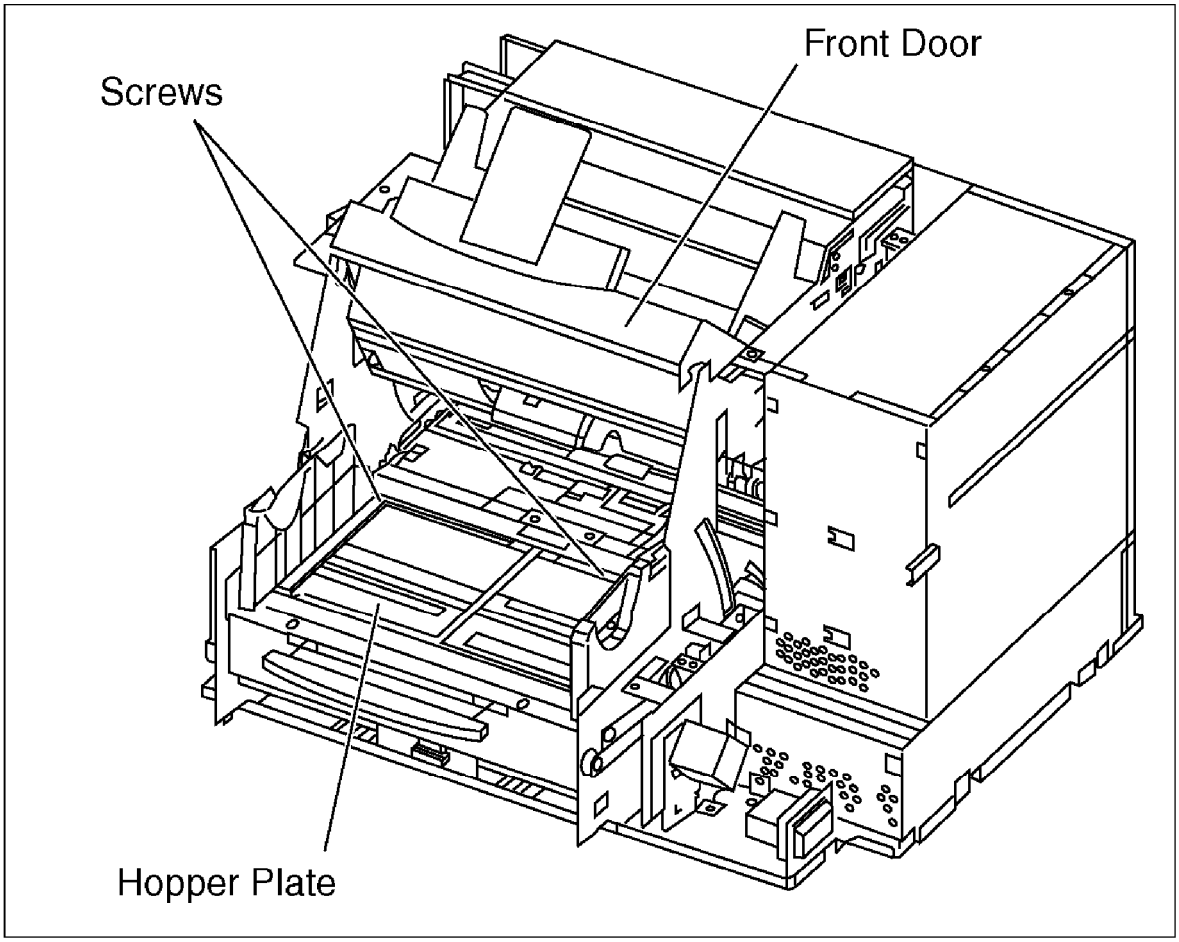
1. Remove the 11 screws.

2. Pull the Back Panel toward the back of the unit to remove.



8.2.6. Hopper Plate

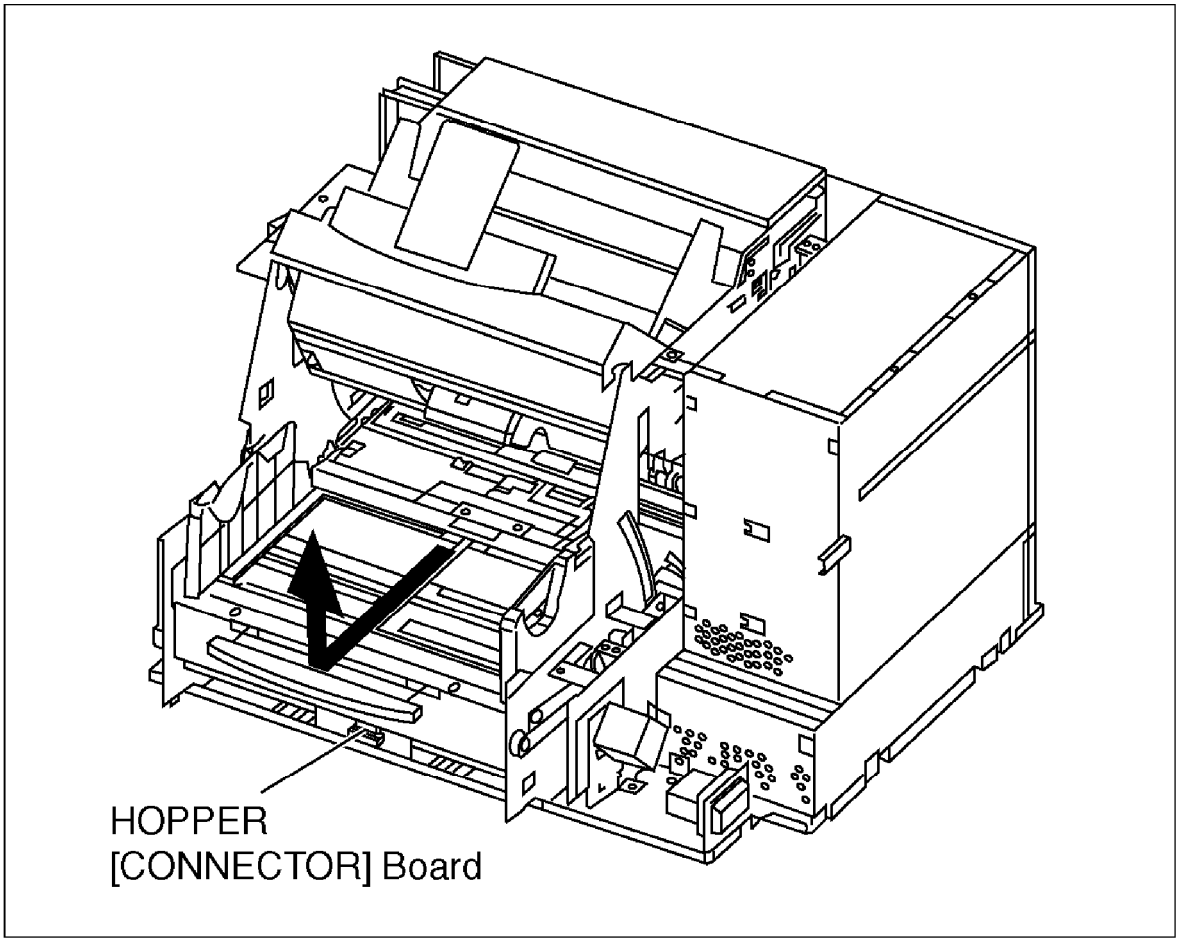
1. **Turn on the power and press Hopper 3 key to set the hopper to 1 page setting position.**
2. **Turn off the power.**
3. **Open the Front Door.**
4. **Remove the 2 screws.**



5. Pull the front side of the Hopper Plate towards the front of the unit.

Note
When removing the Hopper Plate, be careful not to tear the flexible cable attached to the plate.

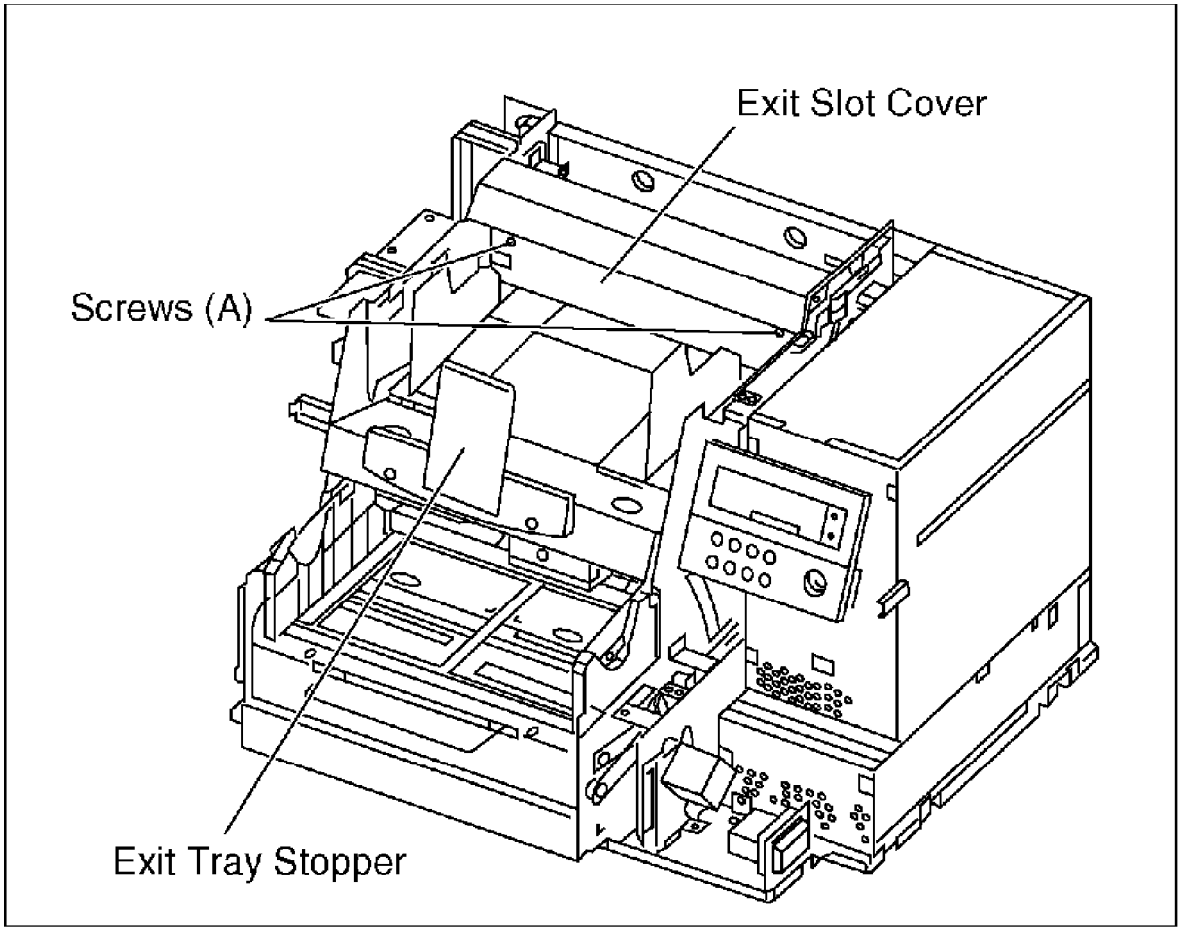
6. Disconnect the CN6 on the HOPPER [CONNECTOR] Board to remove the Hopper Plate.



8.2.7. Exit Slot Cover, Stacker Bottom Cover

1. Remove the 2 screws (A) and remove the Exit Slot Cover.

2. Pull the Exit Tray Stopper toward the front of the unit to remove it.

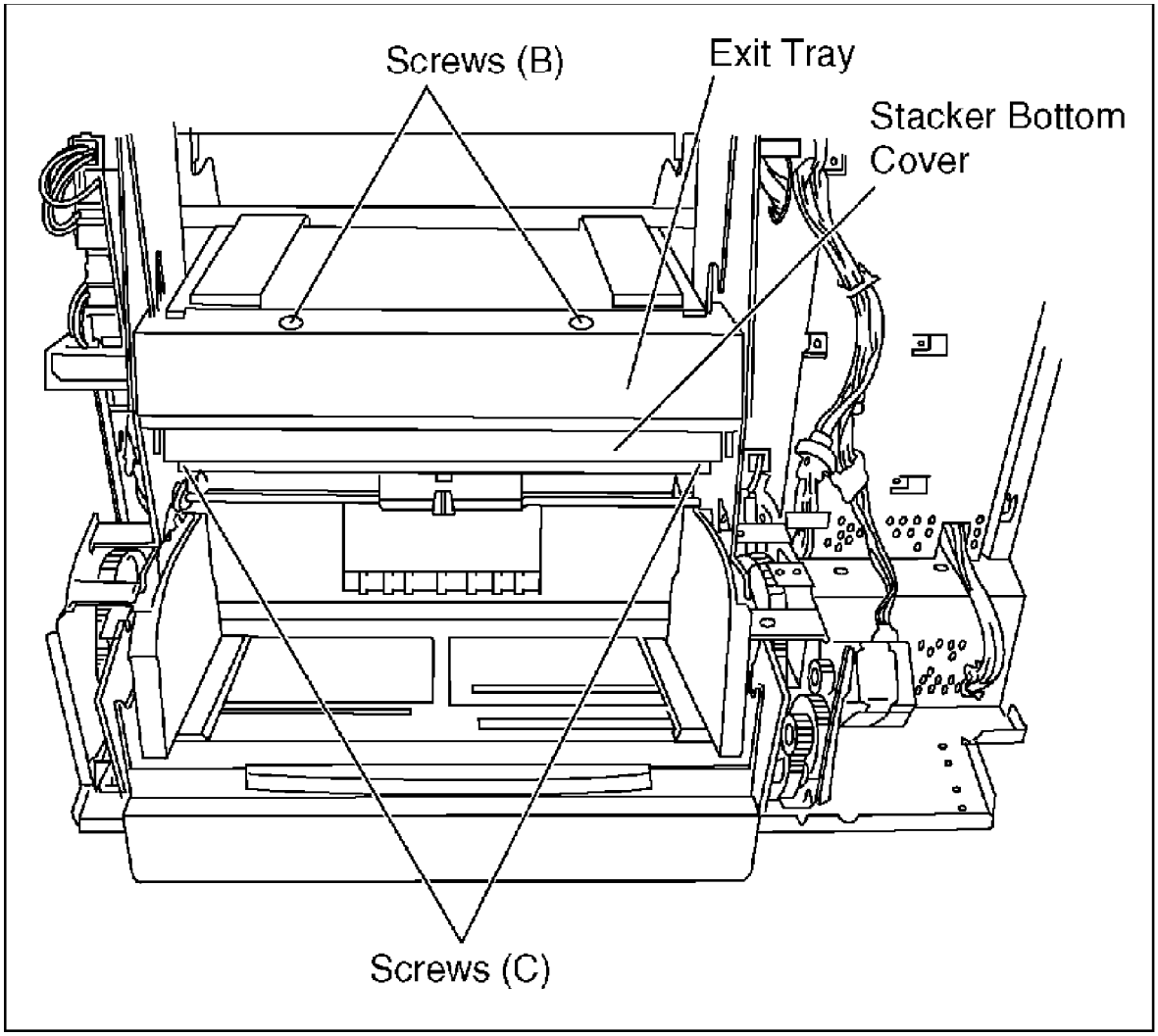


3. Remove the 2 screws (B).

4. Pull the Exit Tray to the front of the unit and lift to remove.

5. Open the Front Door and remove the 2 screws (C).

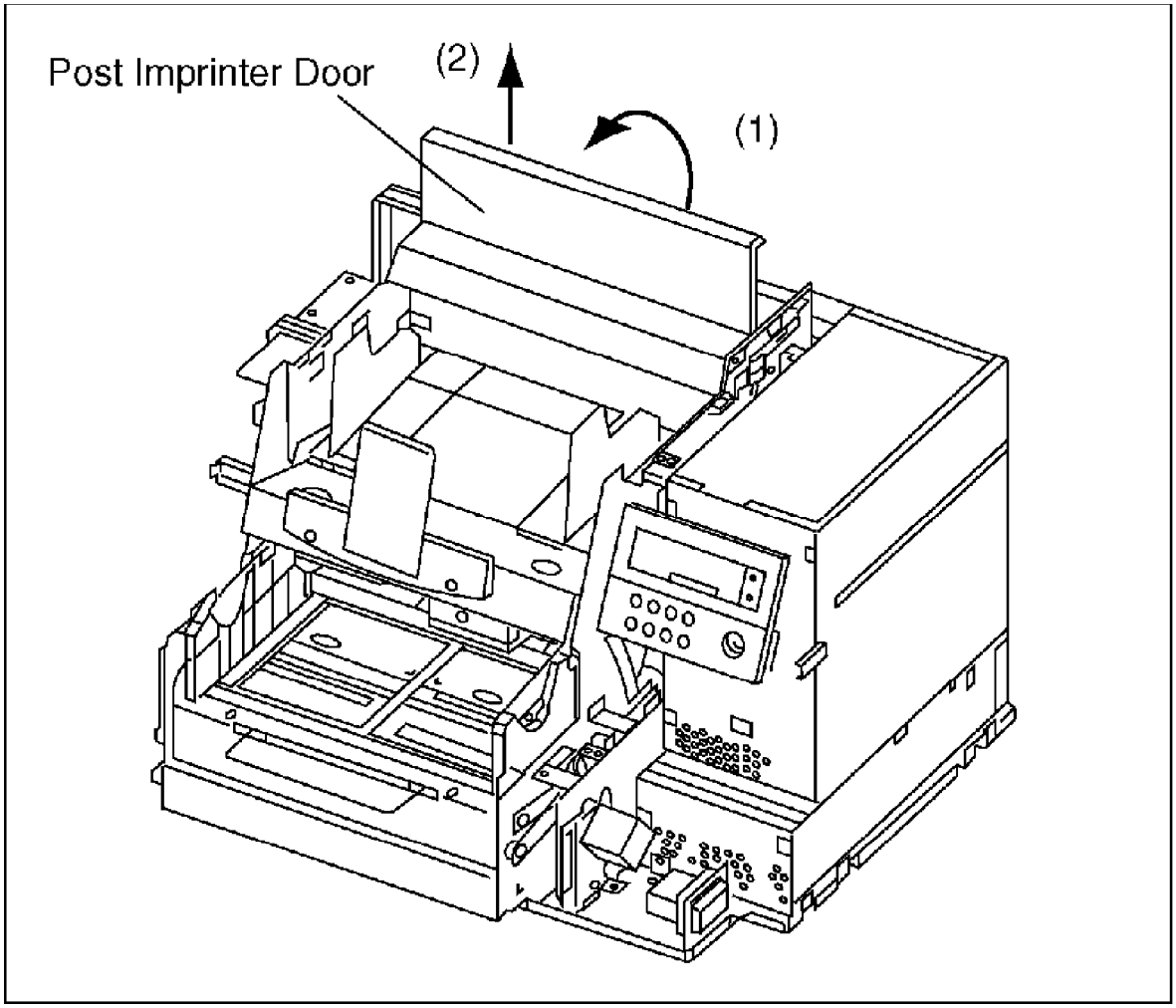
6. Remove the Stacker Bottom Cover.



8.2.8. Post Imprinter Door

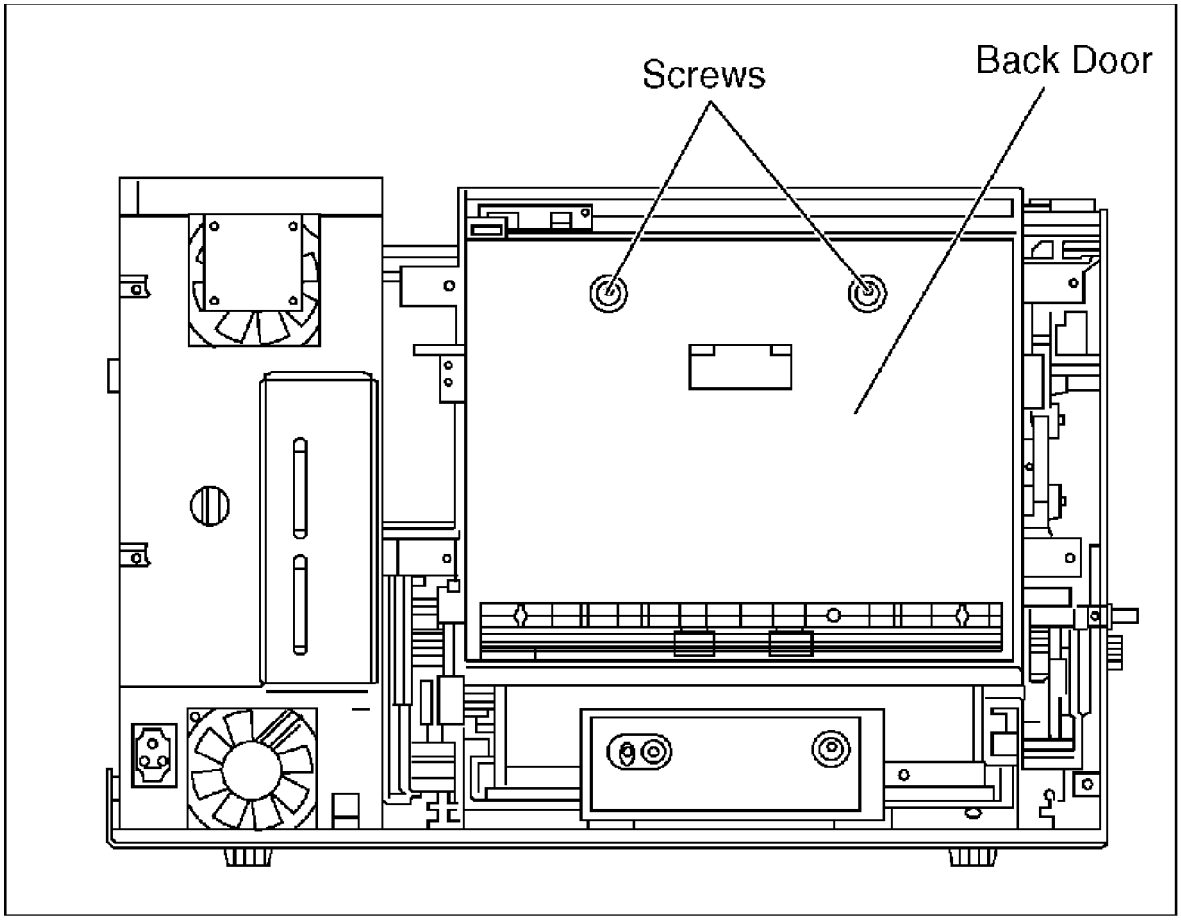
1. Open the Post Imprinter Door.

2. Lift up the Post Imprinter Door to remove.

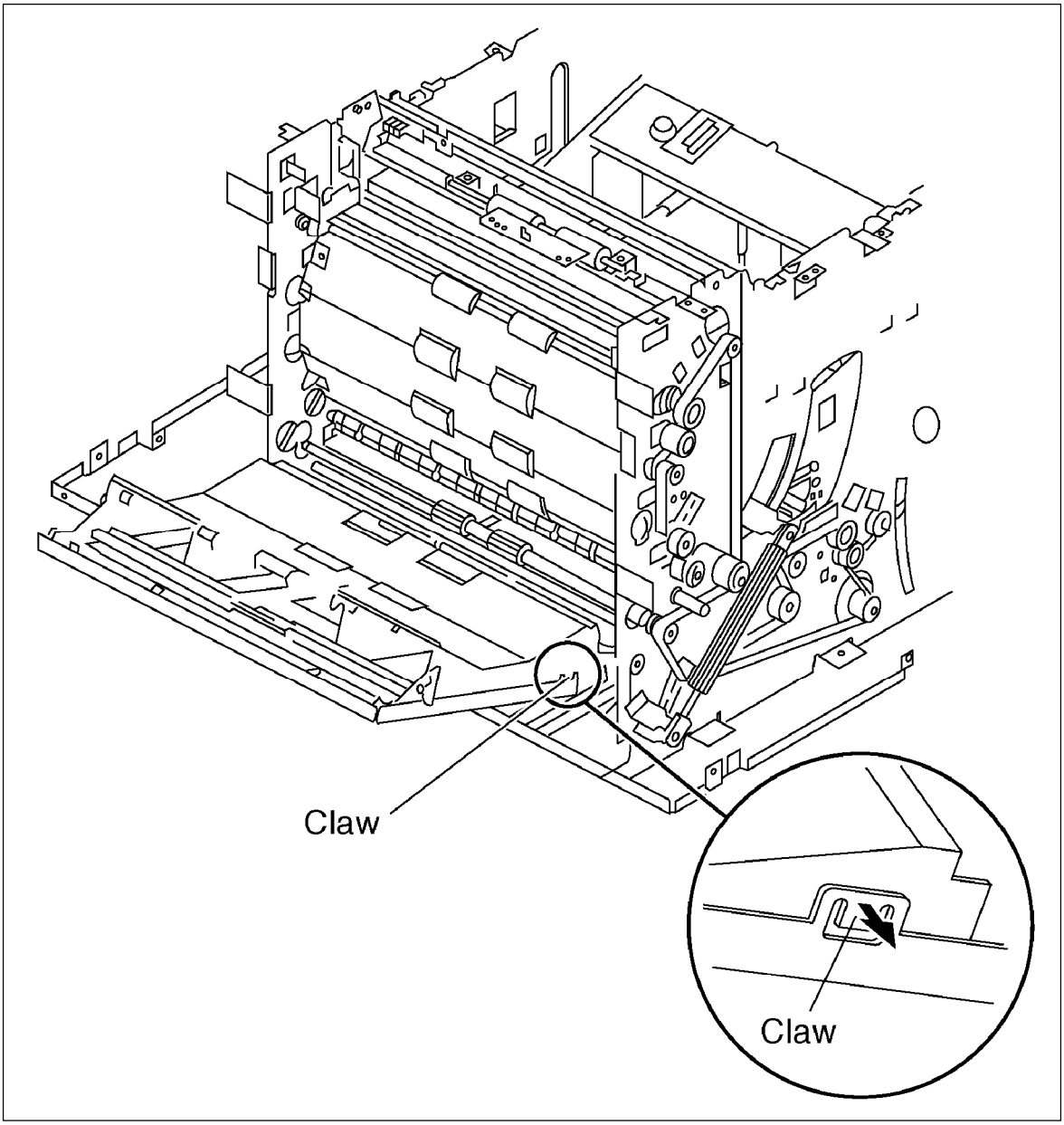


8.2.9. Back Door Cover

1. Remove the 2 screws.



2. Spread the 2 claws of right-and-left both sides toward the outside.



8.2.10. Top Cover

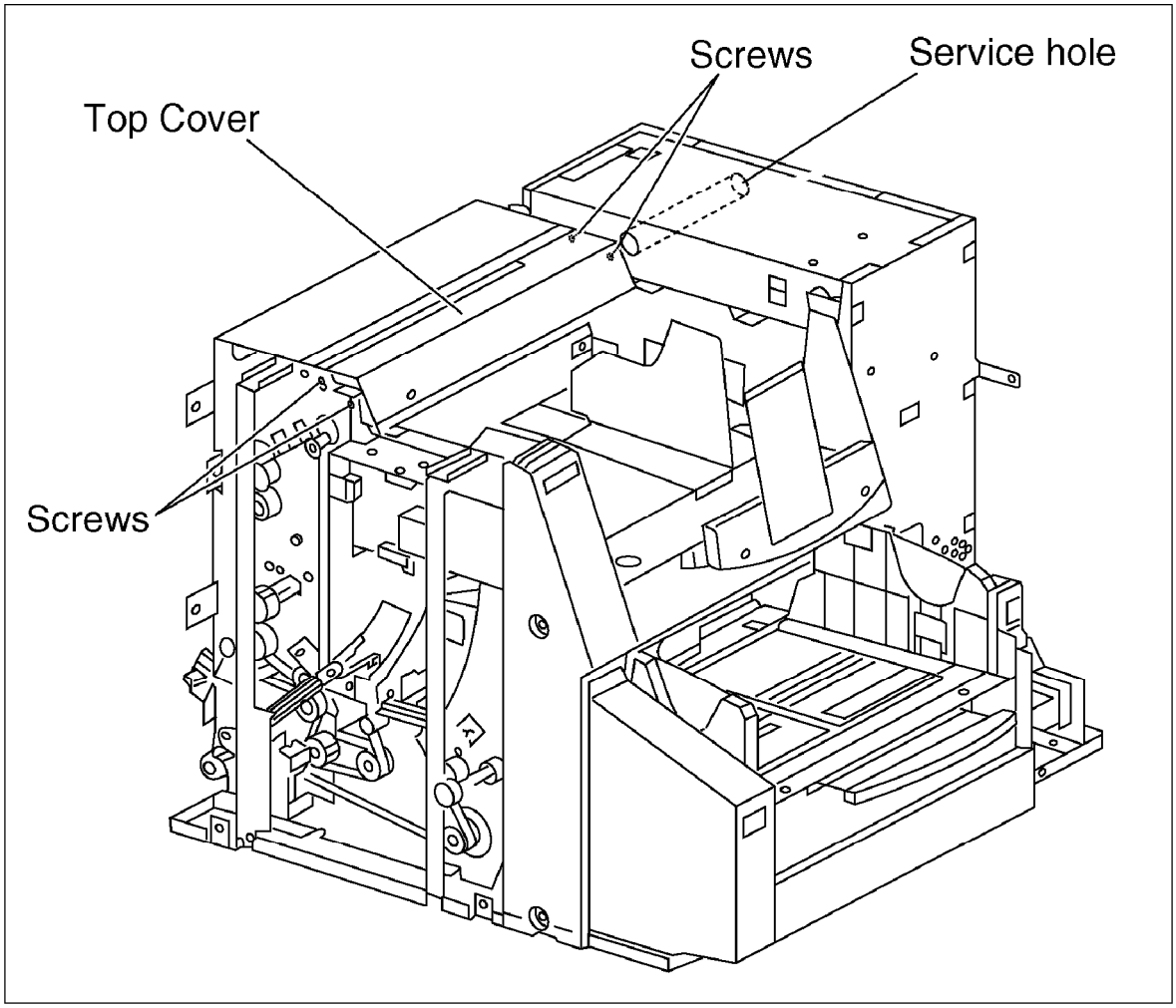
1. Remove Right Side Panel. (See 8.2.1)

2. Remove Left Side Panel. (See 8.2.3)

3. Remove the 4 screws and 2 washers.

Note
- Be careful not to drop washer inside of the unit.
- When removing a right side screw, insert a driver from the service hole on Board Box and remove it.

4. Remover the Top Cover.



8.3. Unit Components

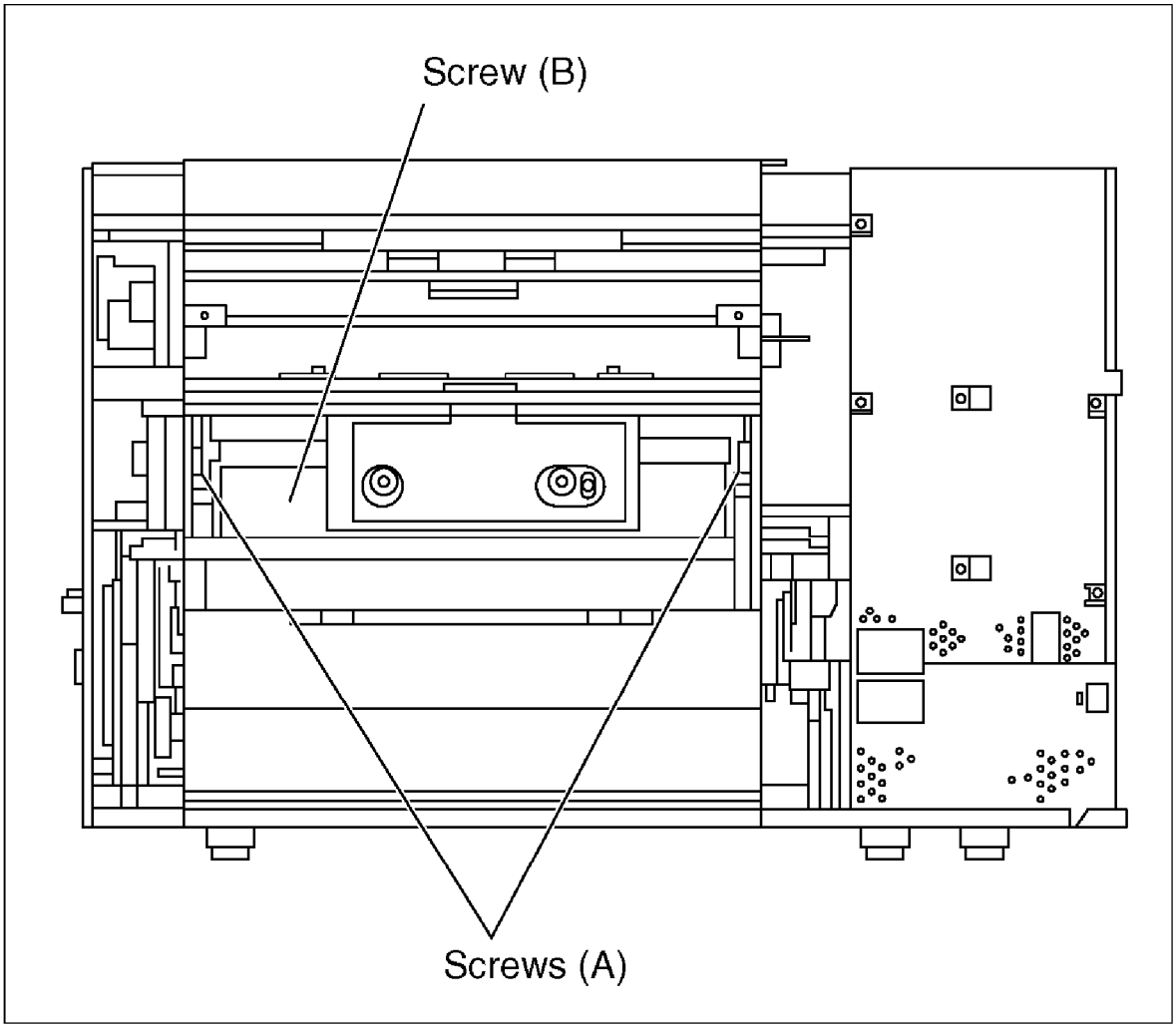
8.3.1. Front Side Optical Unit

1. Remove the Exit Slot Cover, and Stacker Bottom Cover. (See 8.2.7)

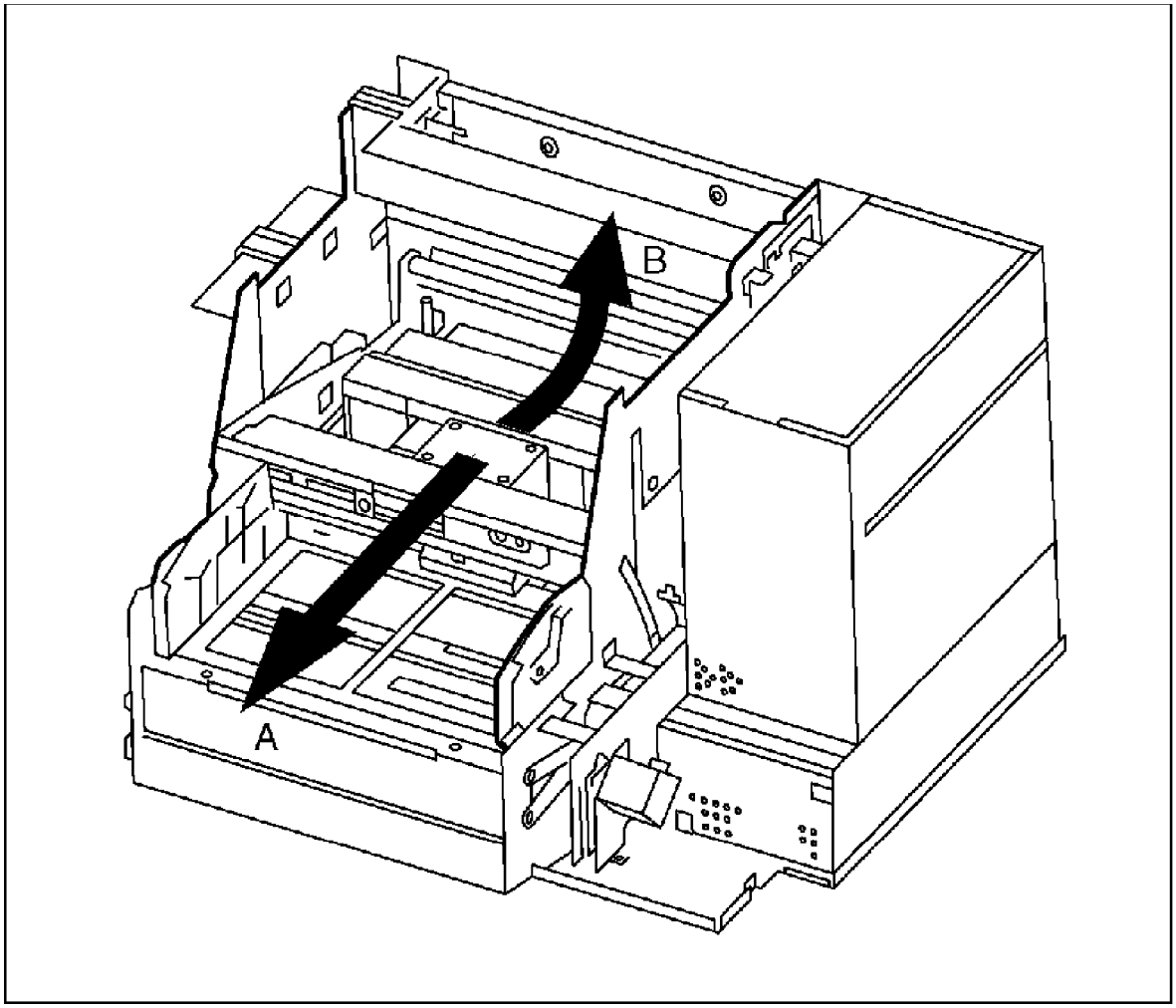
2. Disconnect the all connectors.

3. Remove the 2 screws (A).

4. Remove the 1 screw (B) for the clamper fixing shield cable.



5. Pull the Front Side Optical Unit slightly toward the front of the unit (Arrow A) and lift the back to remove it (Arrow B).



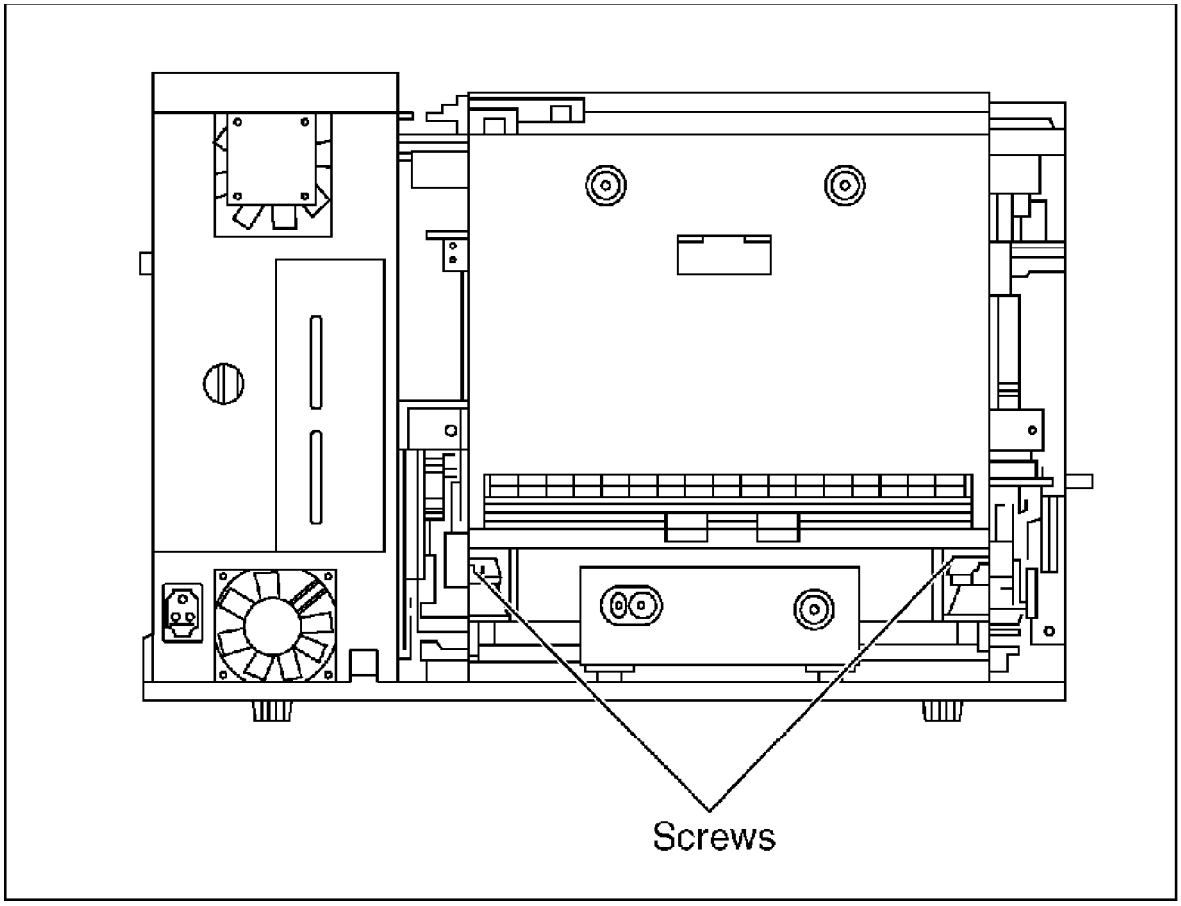
8.3.2. Back Side Optical Unit

1. Remove the Back Panel. (See 8.2.5)

2. Disconnect all connectors.

3. Remove the 2 screws.

4. Pull the Back Side Optical Unit toward the back of the unit to remove.



8.3.3. Board Box & Power Box

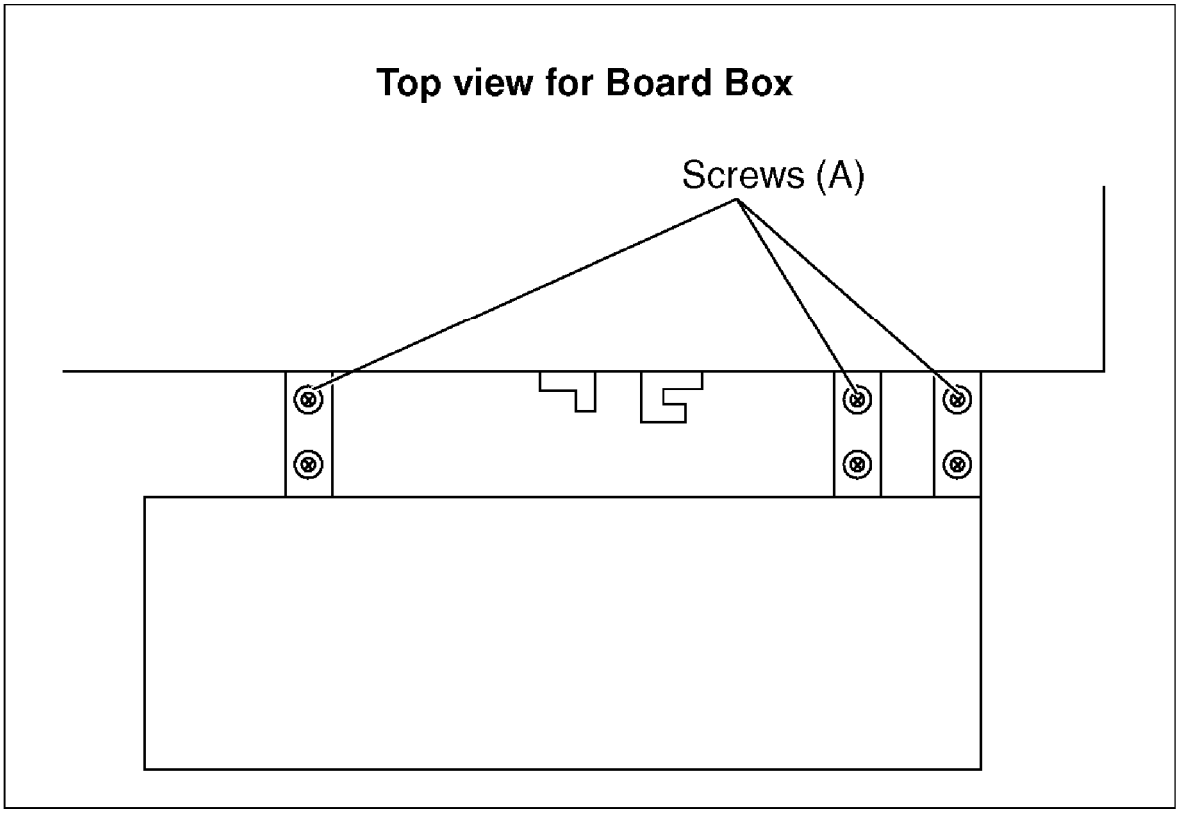
1. Remove the Right Front Panel. (See 8.2.2)

2. Remove MAIN, I/F, and DRIVE Boards. (See 8.4.2 - 8.4.4)

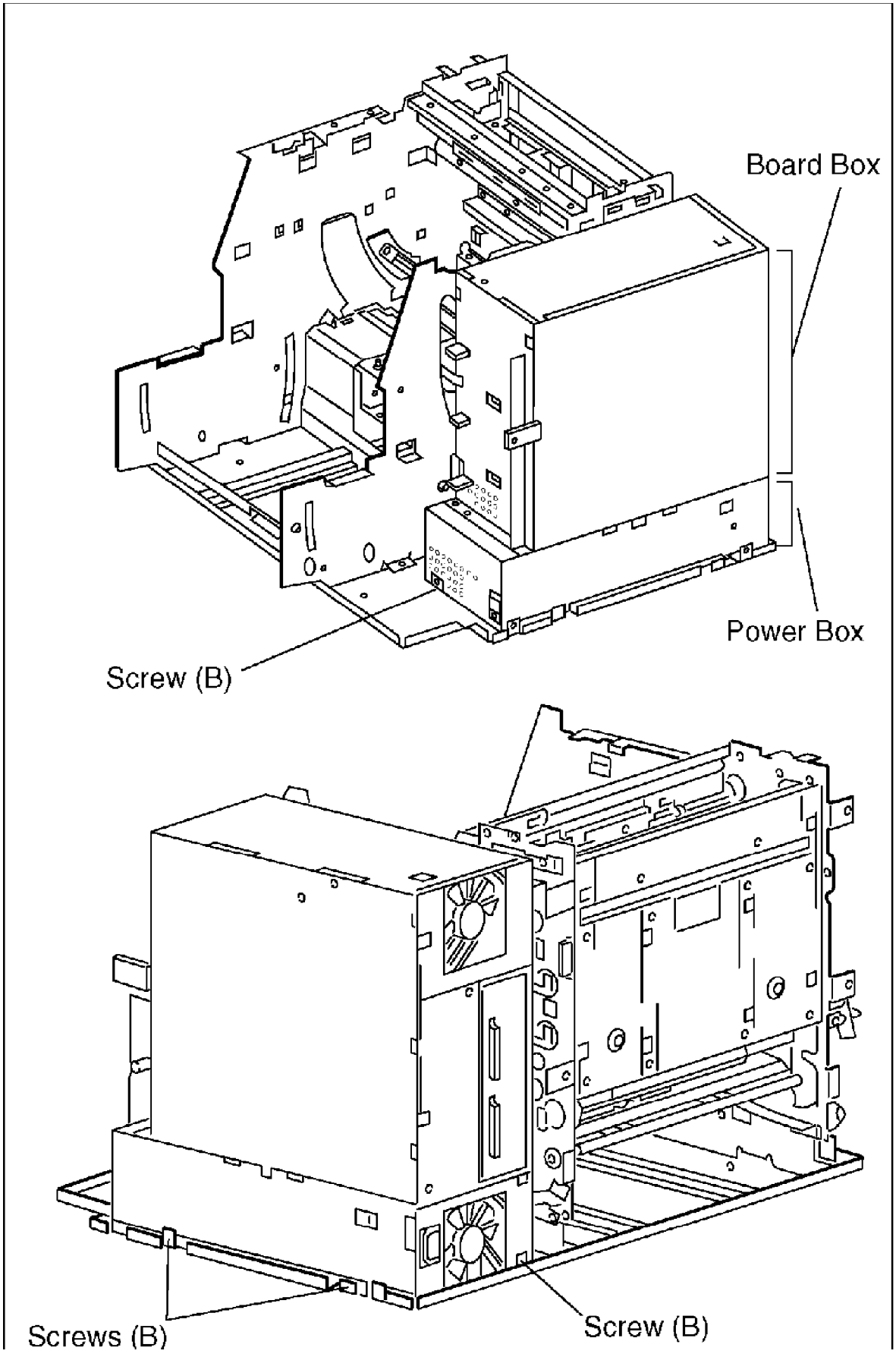
3. Disconnect all connectors on the MOTHER Board.

4. Remove the connectors clamped on the Board box & Power Box.

5. Remove 3 screws (A).



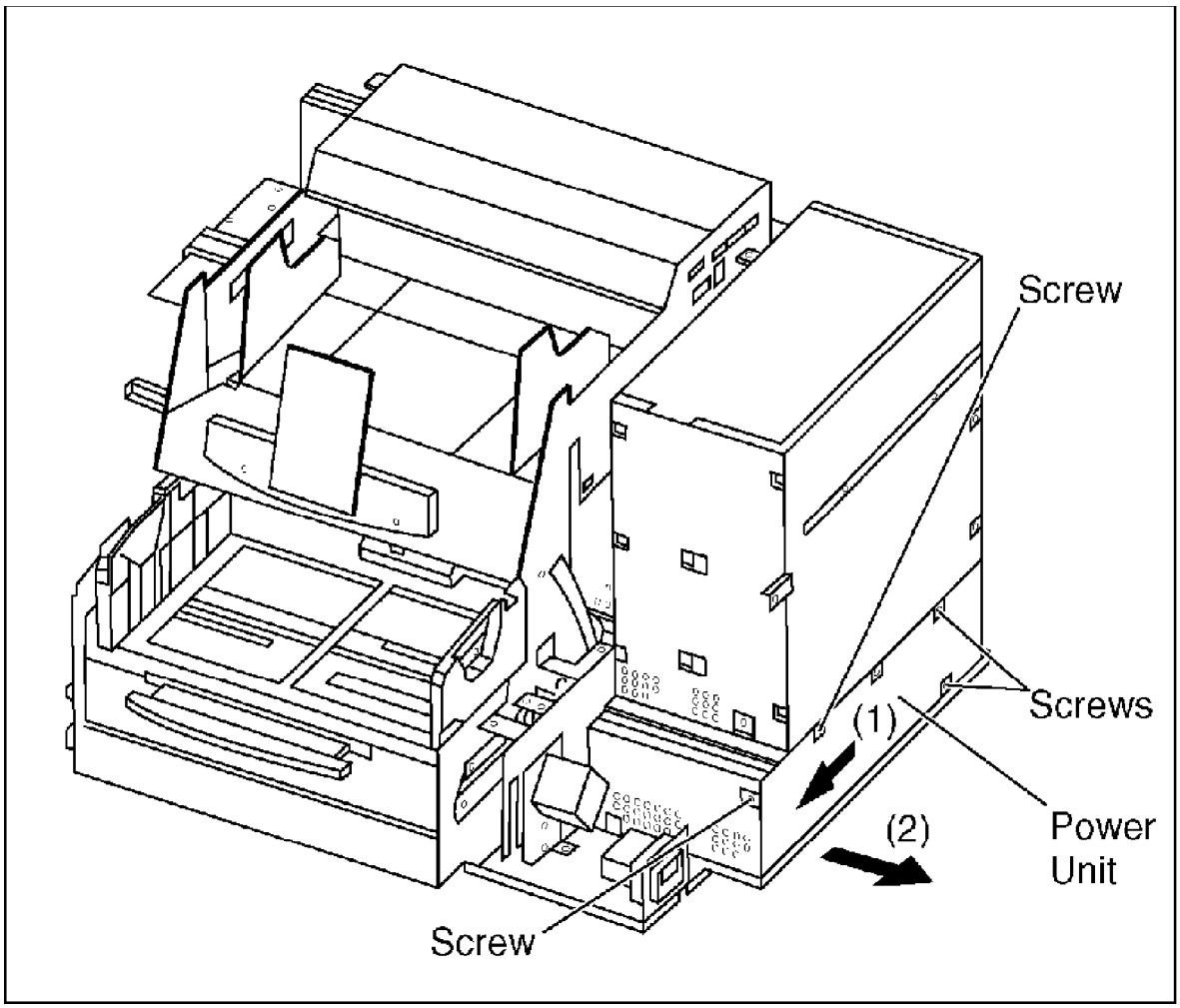
6. Remove the 4 screws (B) and remove the Board Box & Power Box.


Board Box
Power Box
Screw (B)
Screws (B)
Screw (B)

Screws (B)

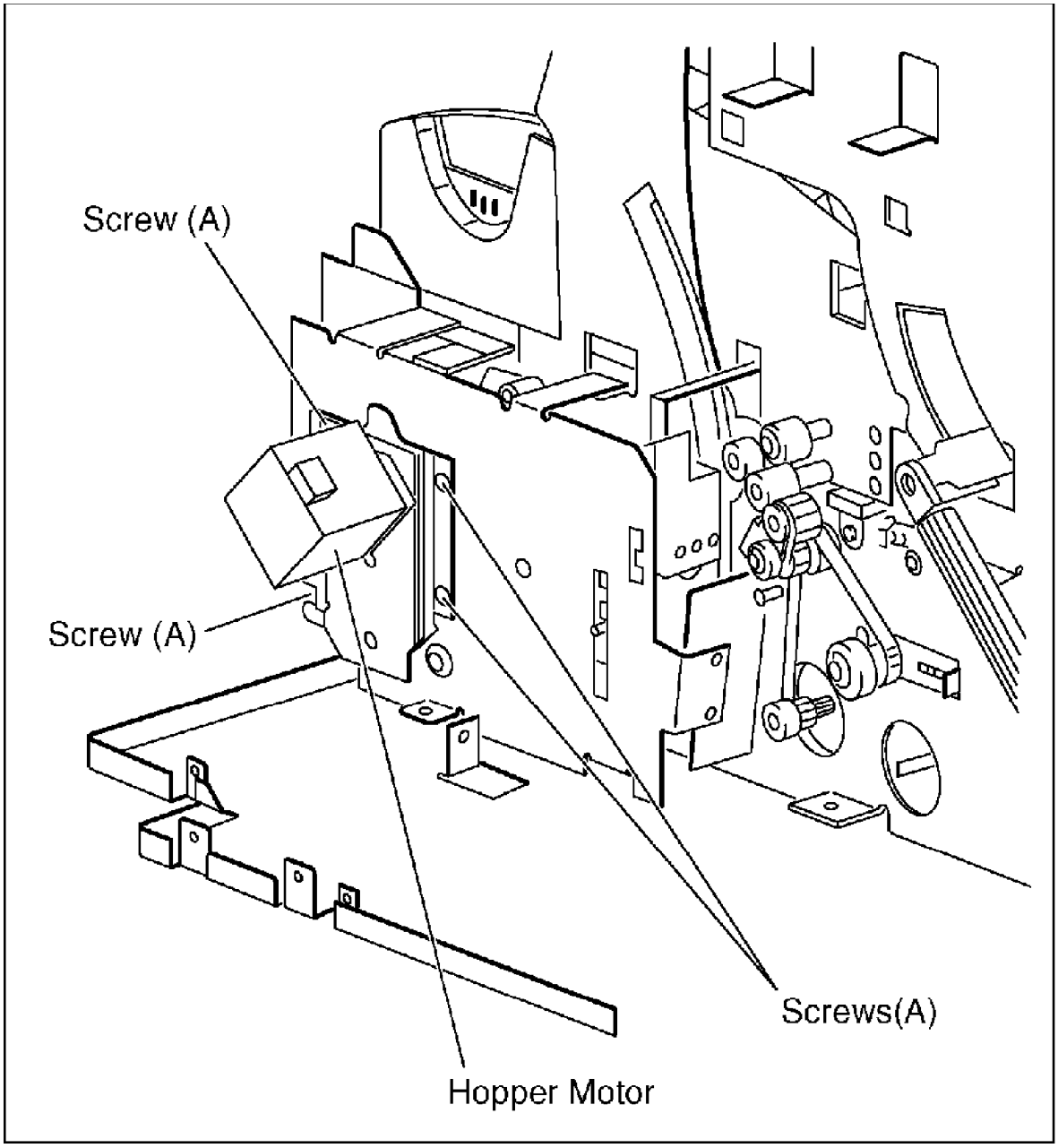
8.3.4. Power Unit

1. Remove the Right Front Panel. (See 8.2.2)
2. Remove the 4 screws.
3. Slide the Power Unit in the direction of the arrow (1), and pull out it in the direction of the arrow (2).
4. Disconnect CN2, CN3 on the Power Board.

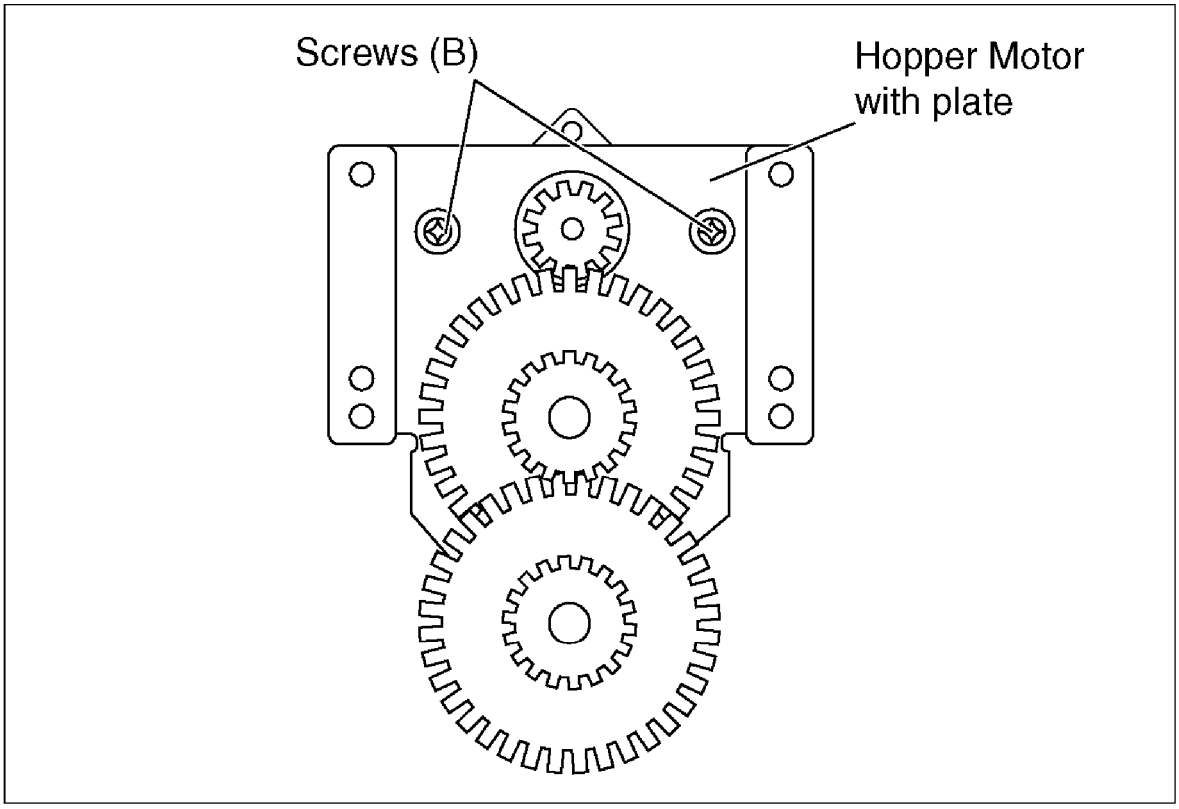


8.3.5. Hopper Motor

1. Remove the Right Front Panel. (See 8.2.2)
2. Disconnect the Hopper Motor Cable.
3. Remove the 4 screws (A) and remove the Hopper Motor with plate.



4. Remove the 2 screws (B) from the Hopper Motor with plate to remove the Hopper Motor.



8.3.6. Paper Feed Motor

1. Remove the Board Box & Power Box. (See 8.3.3)

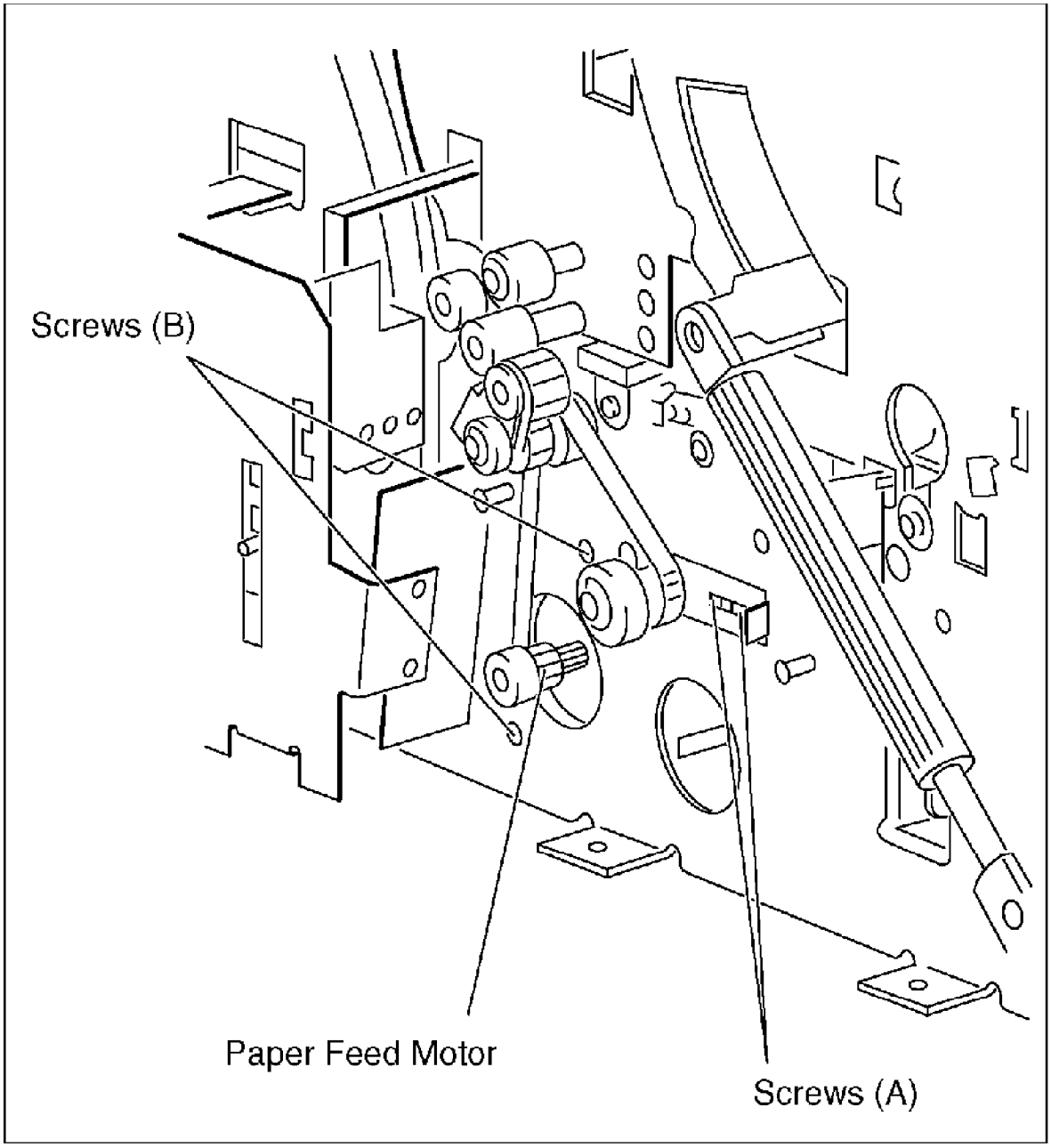
2. Loosen the 2 screws (A) on the Paper Feed Motor Tension Pulley.

3. Remove the 2 screws (B).

4. Remove the Back Side Optical Unit (Se 8.3.2)

5. Disconnect the Paper Feed Motor Cable.

6. Remove the Paper Feed Motor.



8.3.7. Conveyor Motor

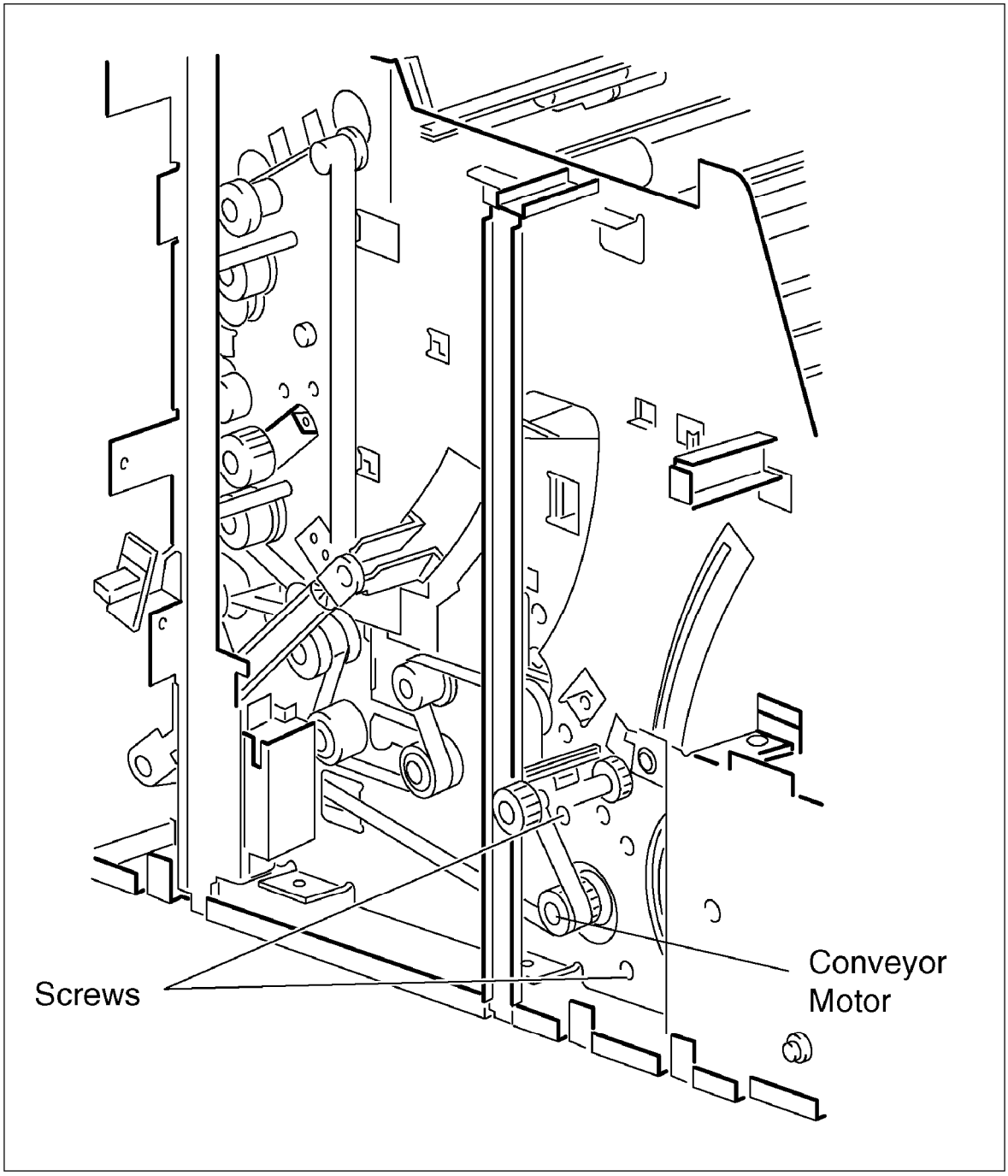
1. Remove the Conveyor Belt 2. (See 8.3.12)

2. Remove the 2 screws.

3. Remove the Back Side Optical Unit (See 8.3.2)

4. Disconnect the Conveyor Motor Cable.

5. Remove the Conveyor Motor.

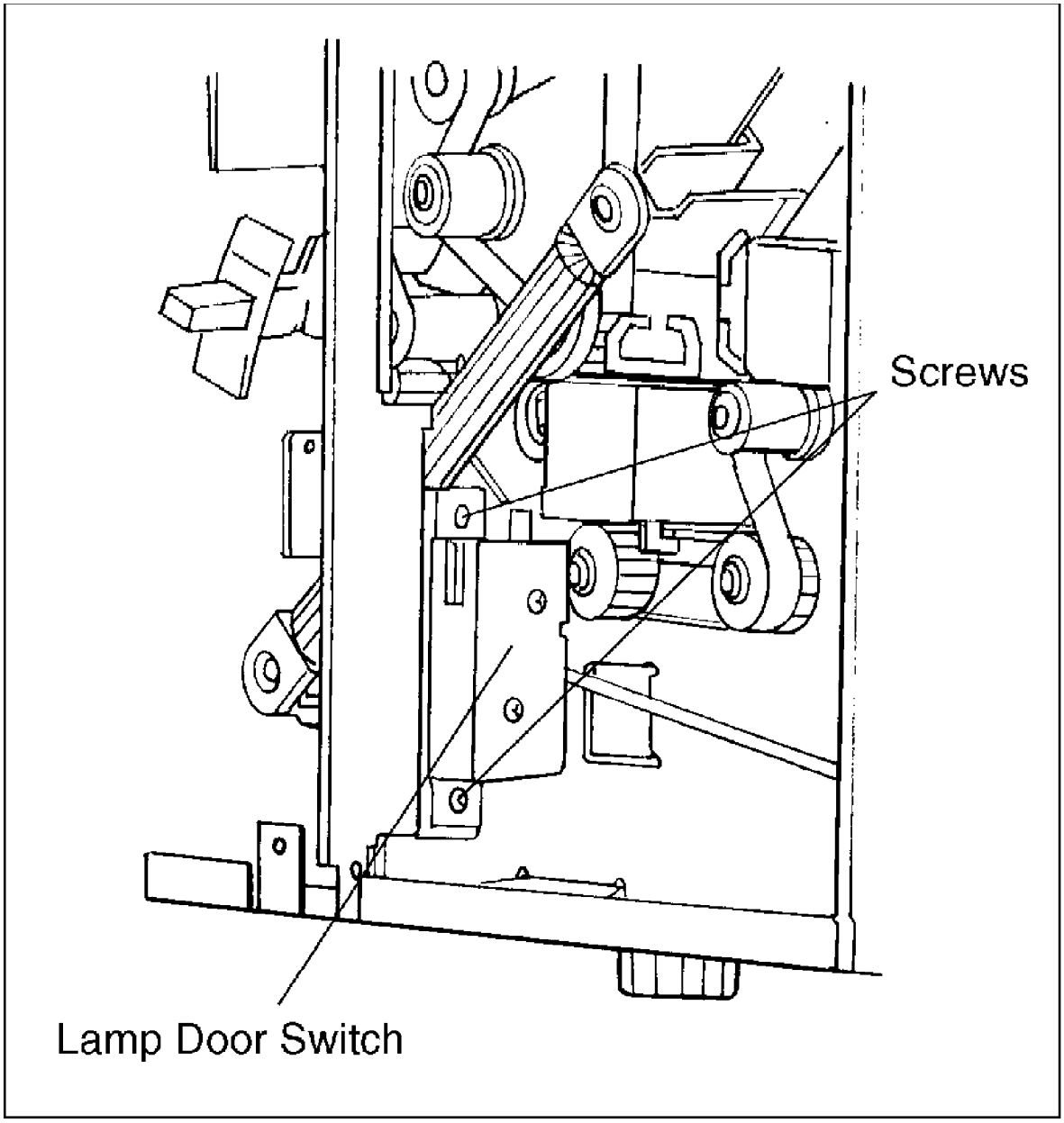


8.3.8. Lamp Door Switch

1. Remove the Left Side Panel and Back Panel. (See 8.2.3, 8.2.5)

2. Remove the 2 screws.

3. Disconnect the Lamp Door Switch Cable and remove the Lamp Door Switch.

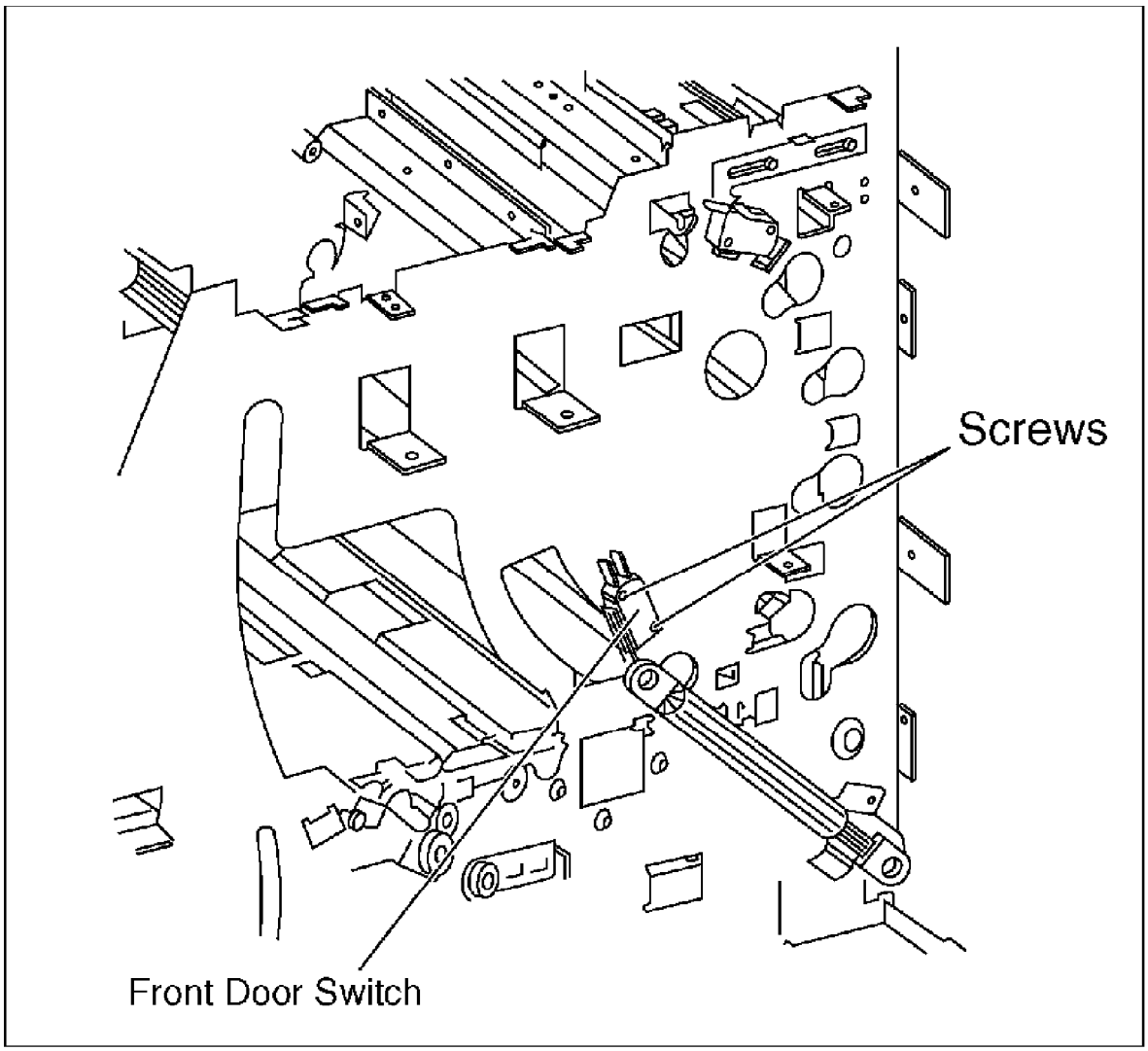


8.3.9. Front Door Switch

1. Remove the Board Box & Power Box. (See 8.3.3)

2. Disconnect the Front Door Switch Cable.

3. Remove the 2 screws.

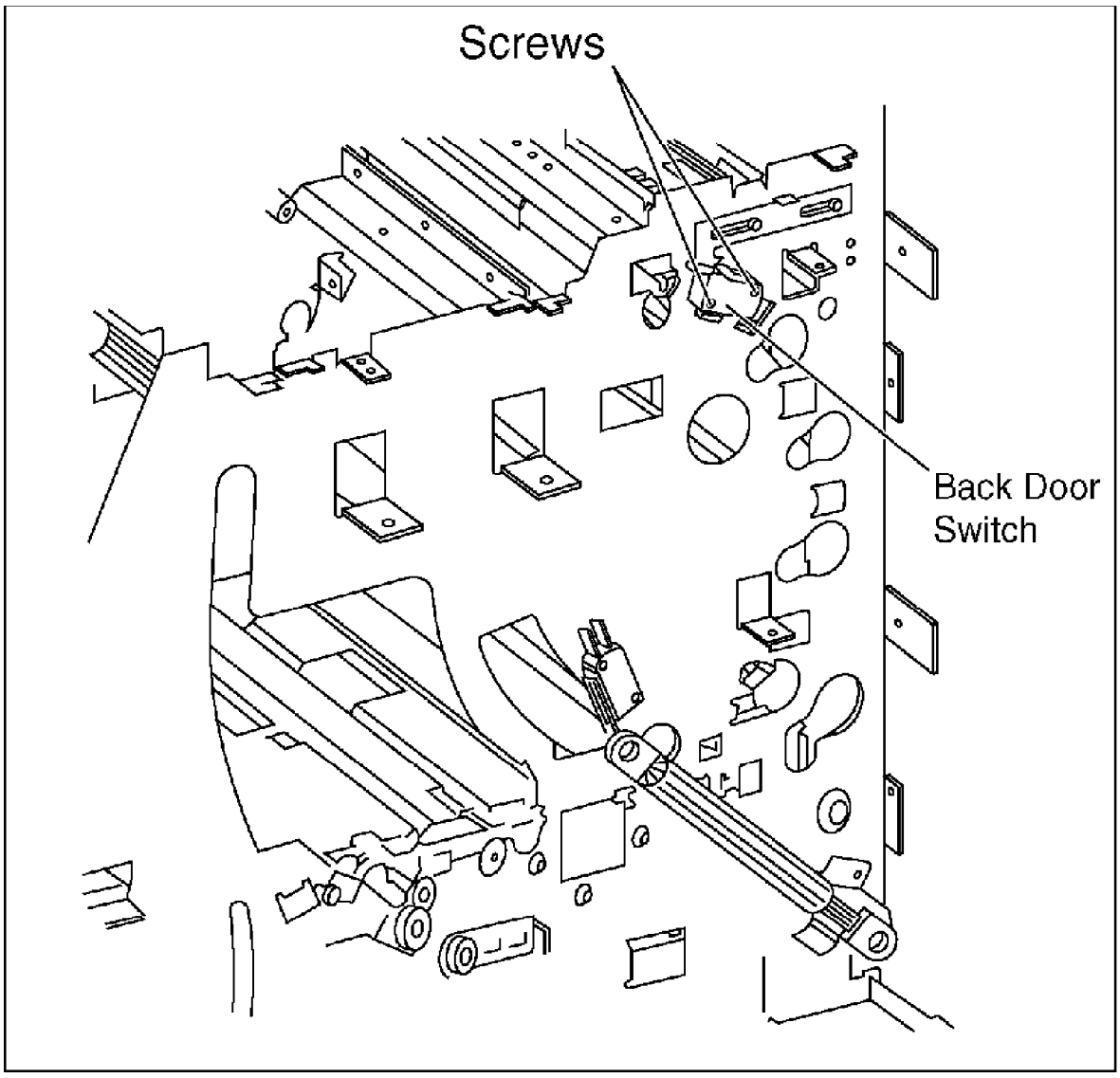


8.3.10. Back Door Switch

1. Remove the Board Box & Power Box. (See 8.3.3)

2. Disconnect the Back Door Switch Cable.

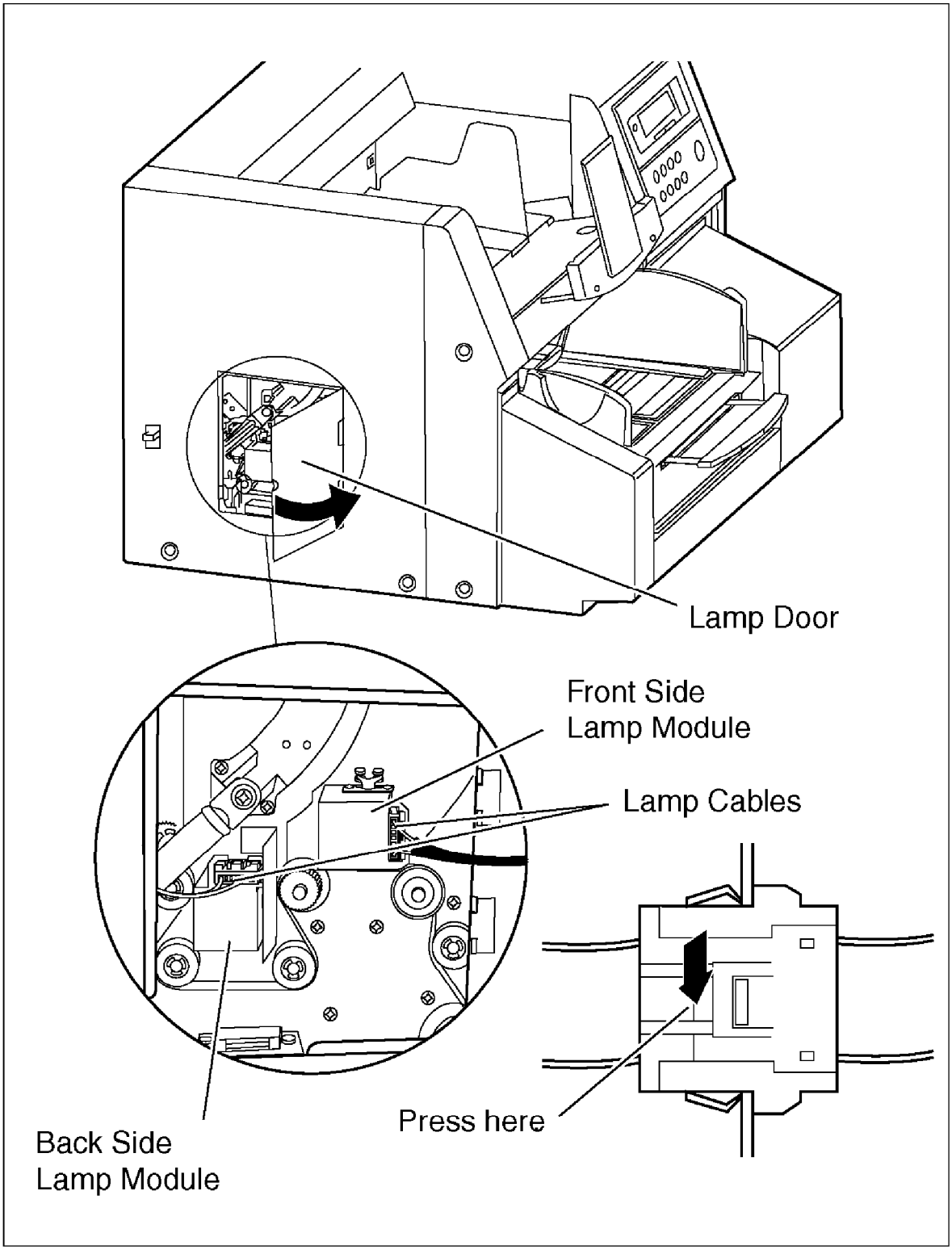
3. Remove the 2 screws.



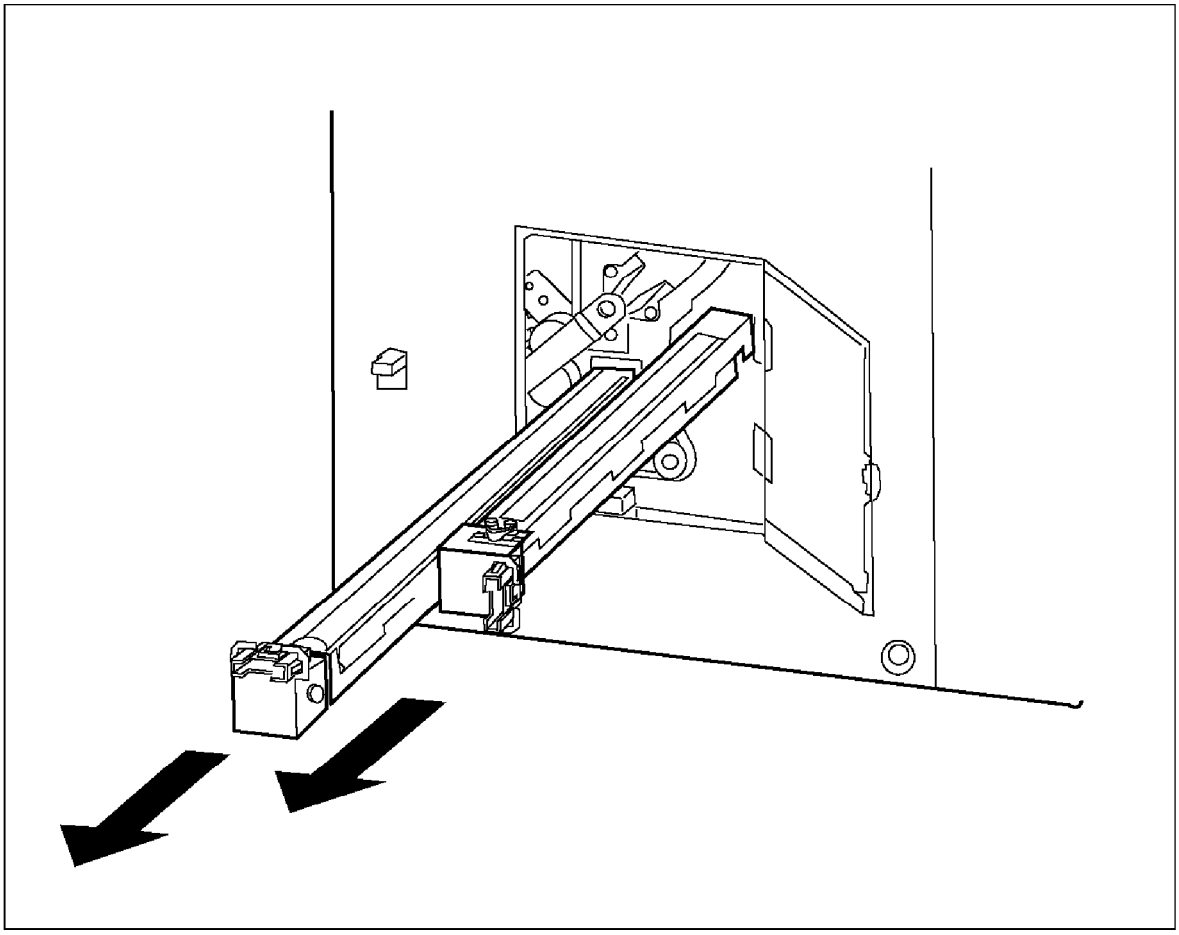
8.3.11. Lamps [Front], [Back]

1. Turn the power off.

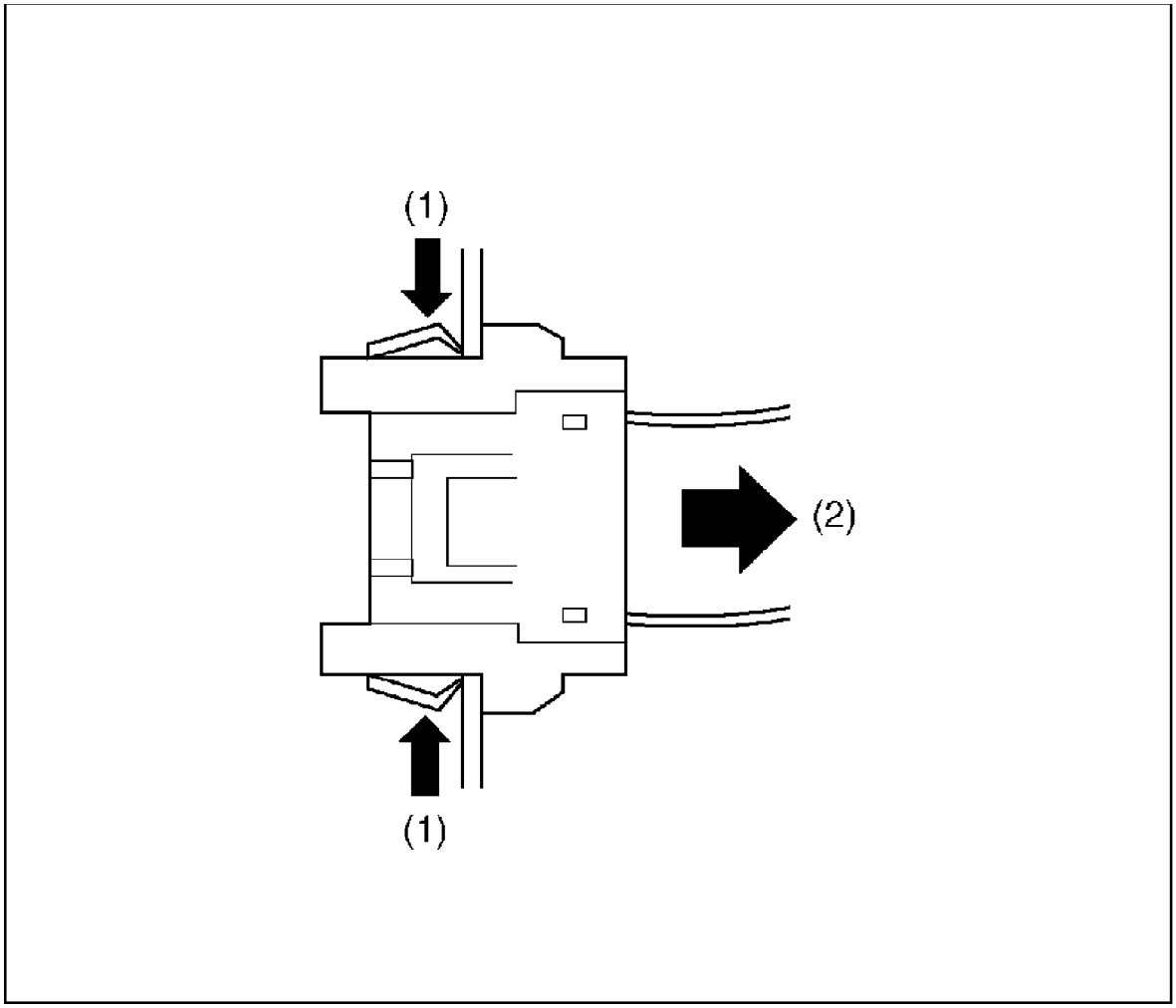
2. Open the Lamp Door and disconnect the Lamp Cables.



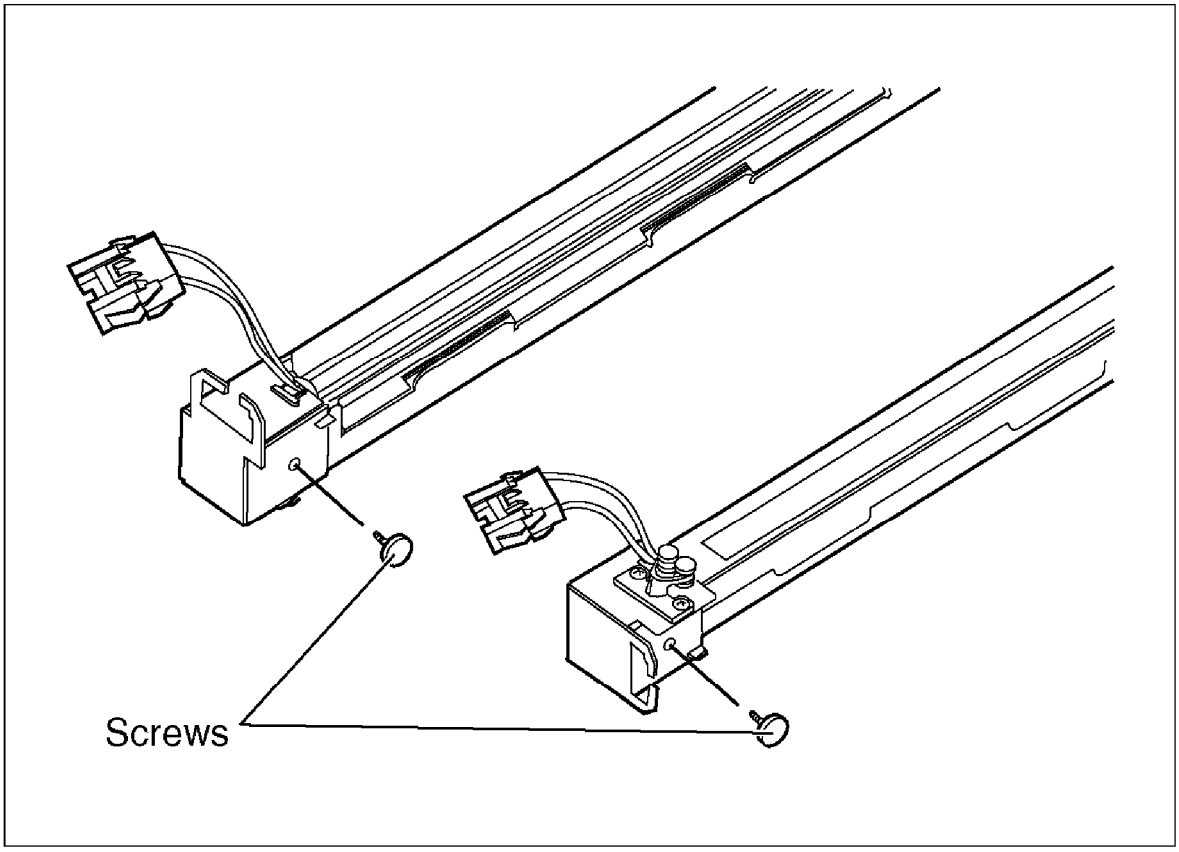
3. Pull the Lamp Modules out of the Scanner.



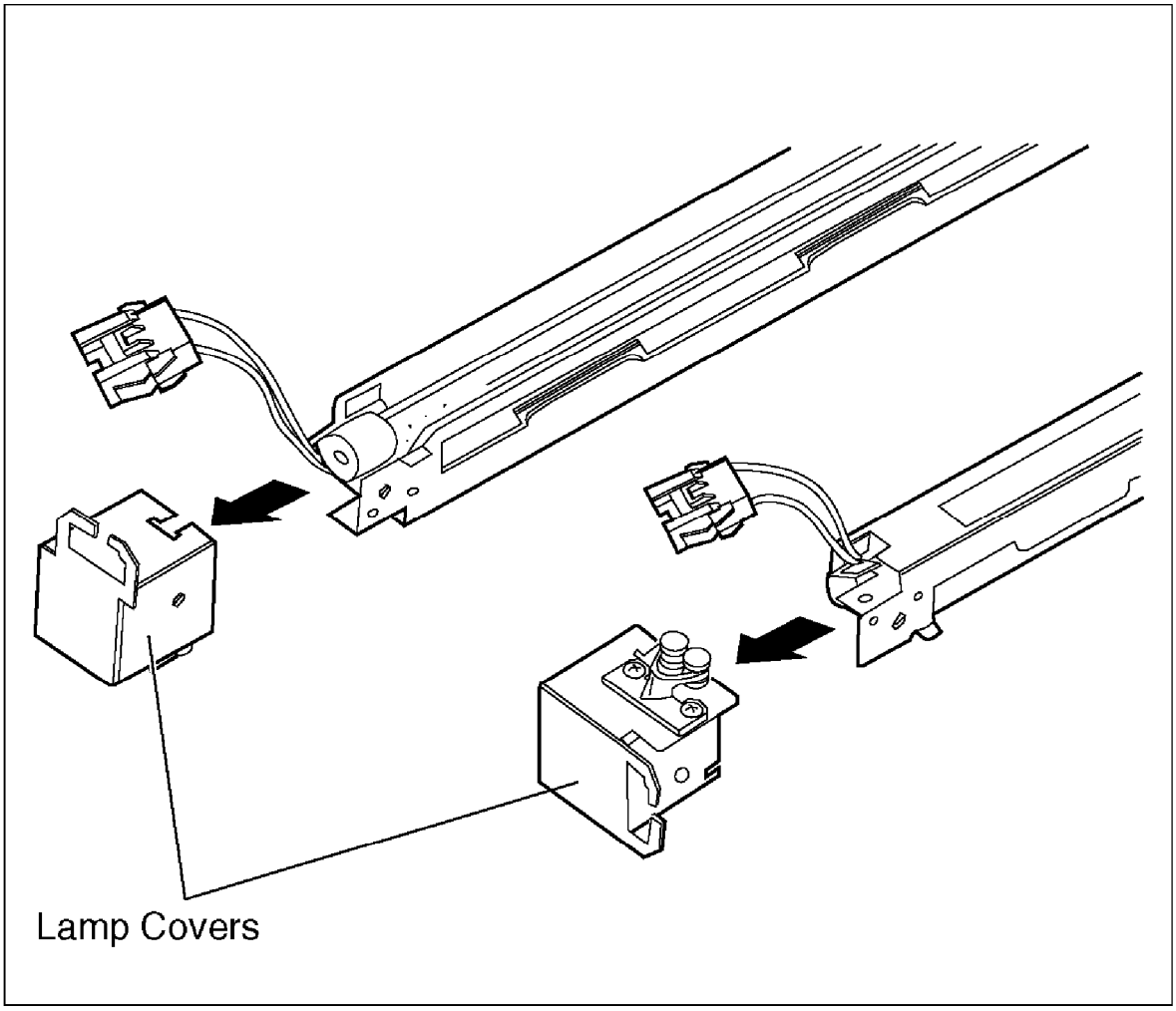
4. While squeezing the connector locks (1), remove the lamp cable connector (2) from the connector holder.



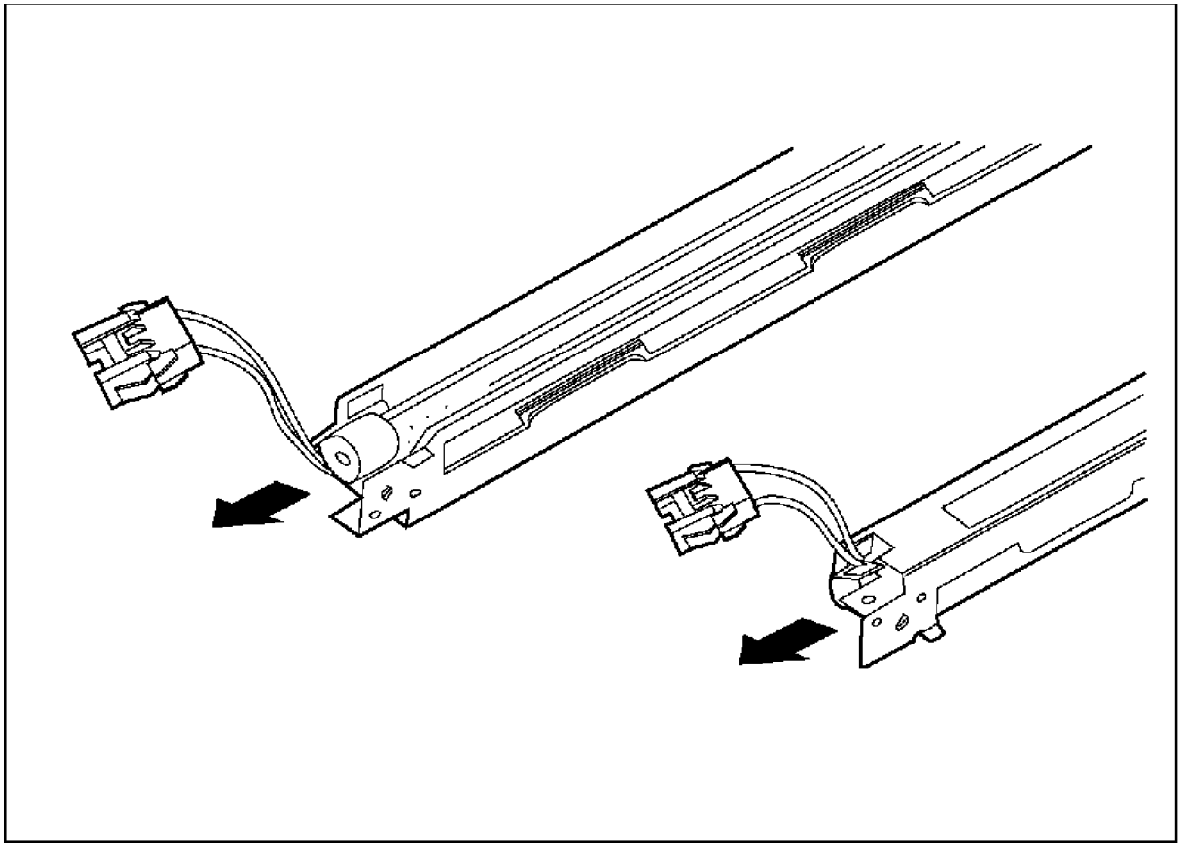
5. Remove screws.



6. Remove the Lamp Holder covers on the Lamp Modules.



7. Remove the Lamps from the Lamp Modules in the direction of the arrow.



8.3.12. Conveyor Belt 2

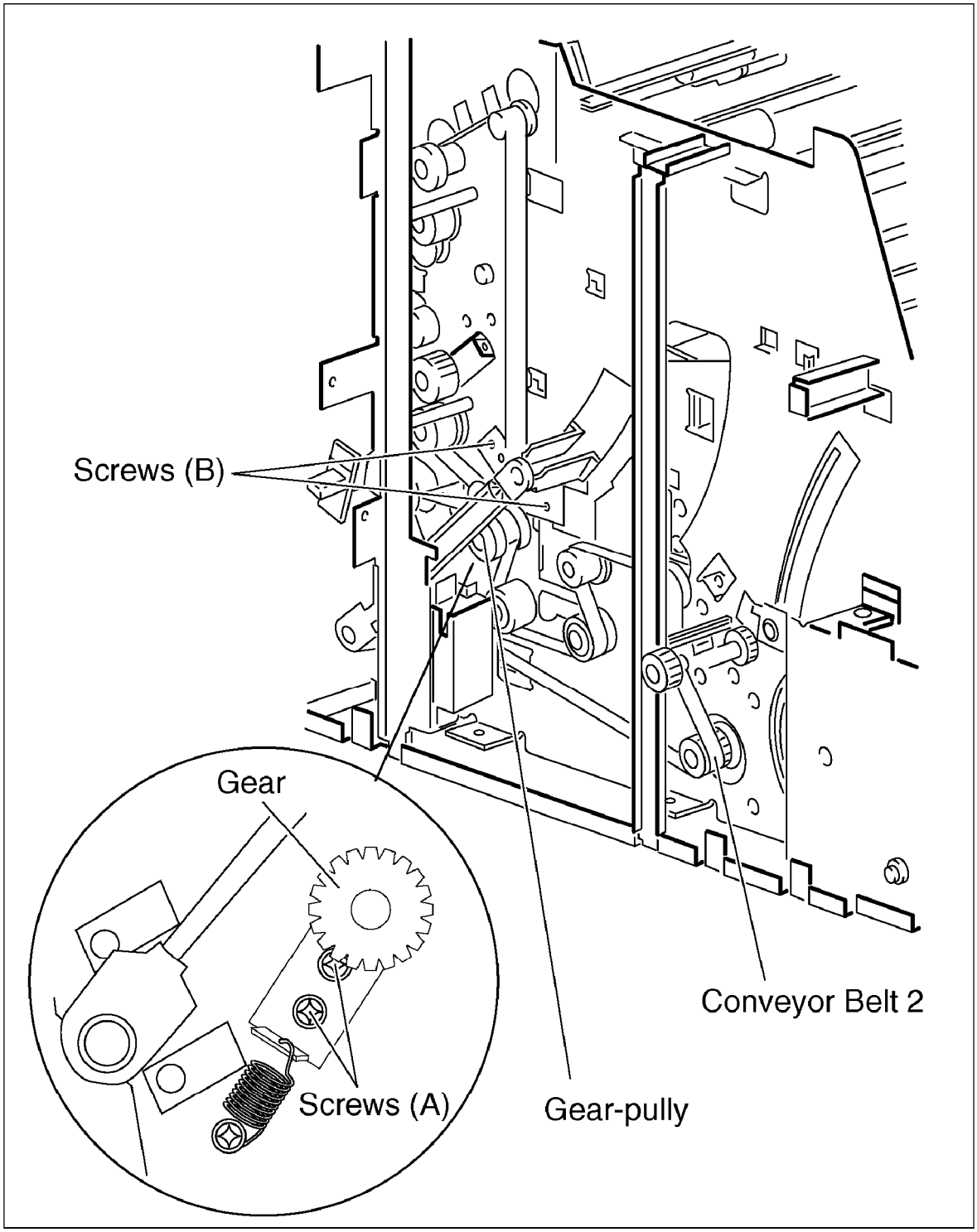
1. Remove the Left Side Panel. (See 8.2.3)

2. Loosen the 2 screws (A) and release the Tension Pulley.

3. Remove the 2 screws (B) and remove the Gear-pulley.

4. Remove the Conveyor Belt 2.

Reassembling Note
Adjust belt tension according to instruction in the BELT LAYOUT Label pasted inside of the Left Side Panel.



8.3.13. Conveyor Belt 1

1. Remove the Left Side Panel. (See 8.2.3)

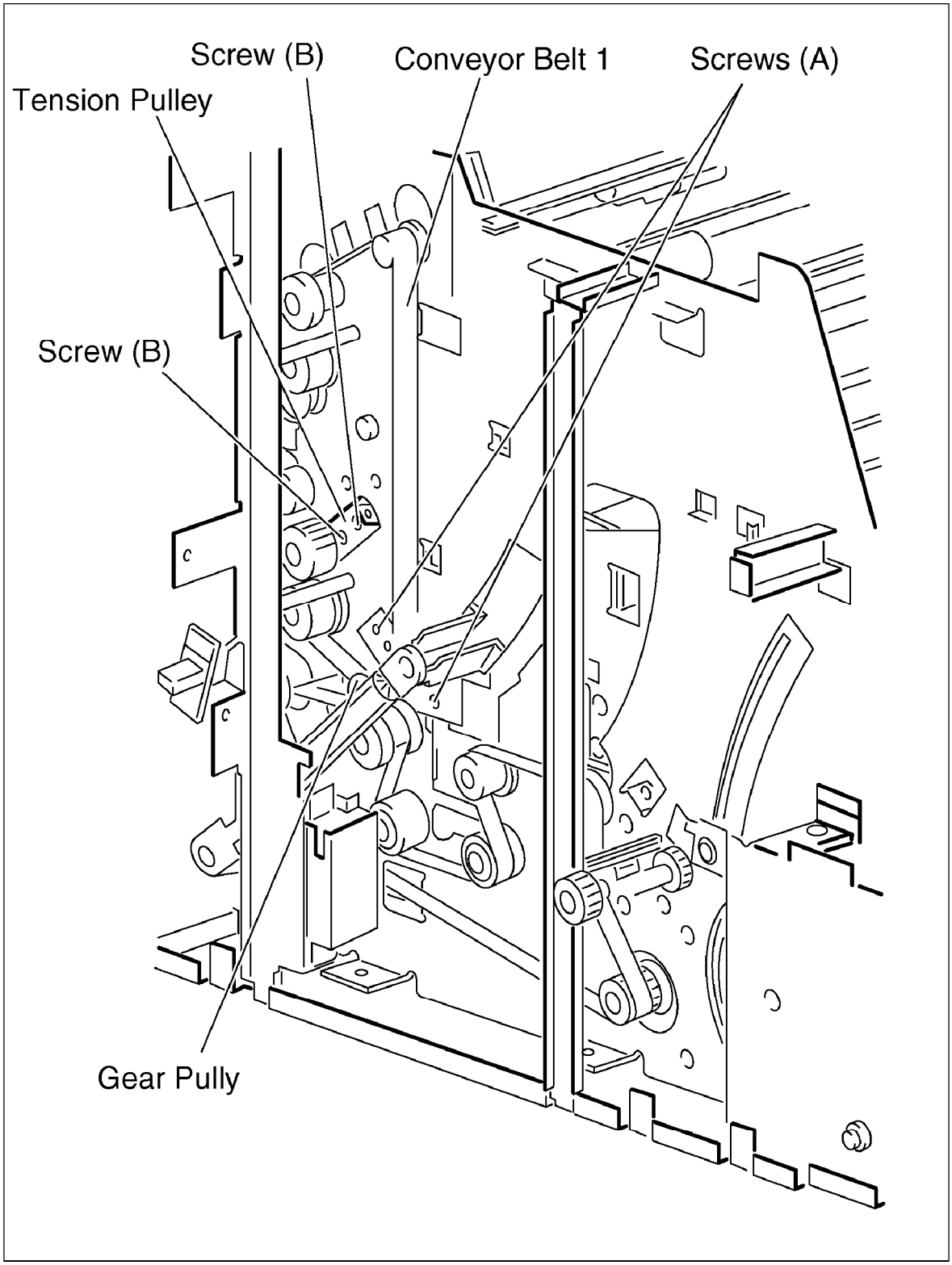
2. Remove the 2 screws (A).

3. Remove the Gear-Pulley

4. Loosen the 2 screws (B) and release the Tension Pulley.

5. Remove the Conveyor Belt 1.

Reassembling Note
Adjust belt tension according to instruction in the BELT LAYOUT Label pasted inside of the Left Side Panel.



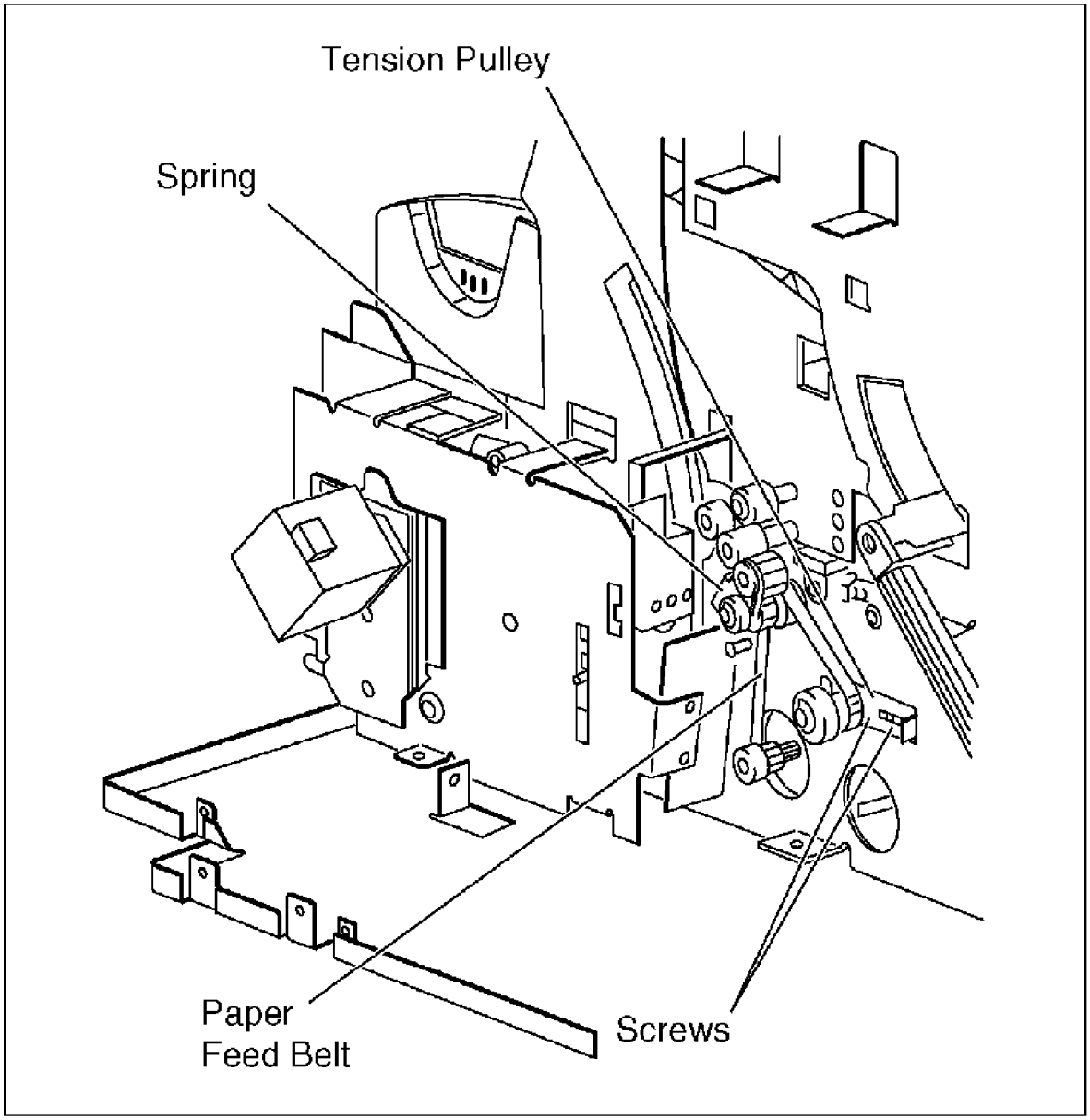
8.3.14. Paper Feed Belt

1. Remove the Right Front Panel. (See 8.2.2)

2. Remove the Board Box & Power Box. (See 8.3.3)

3. Loosen the 2 screws and release the Tension Pulley.

4. Remove the Paper Feed Belt.

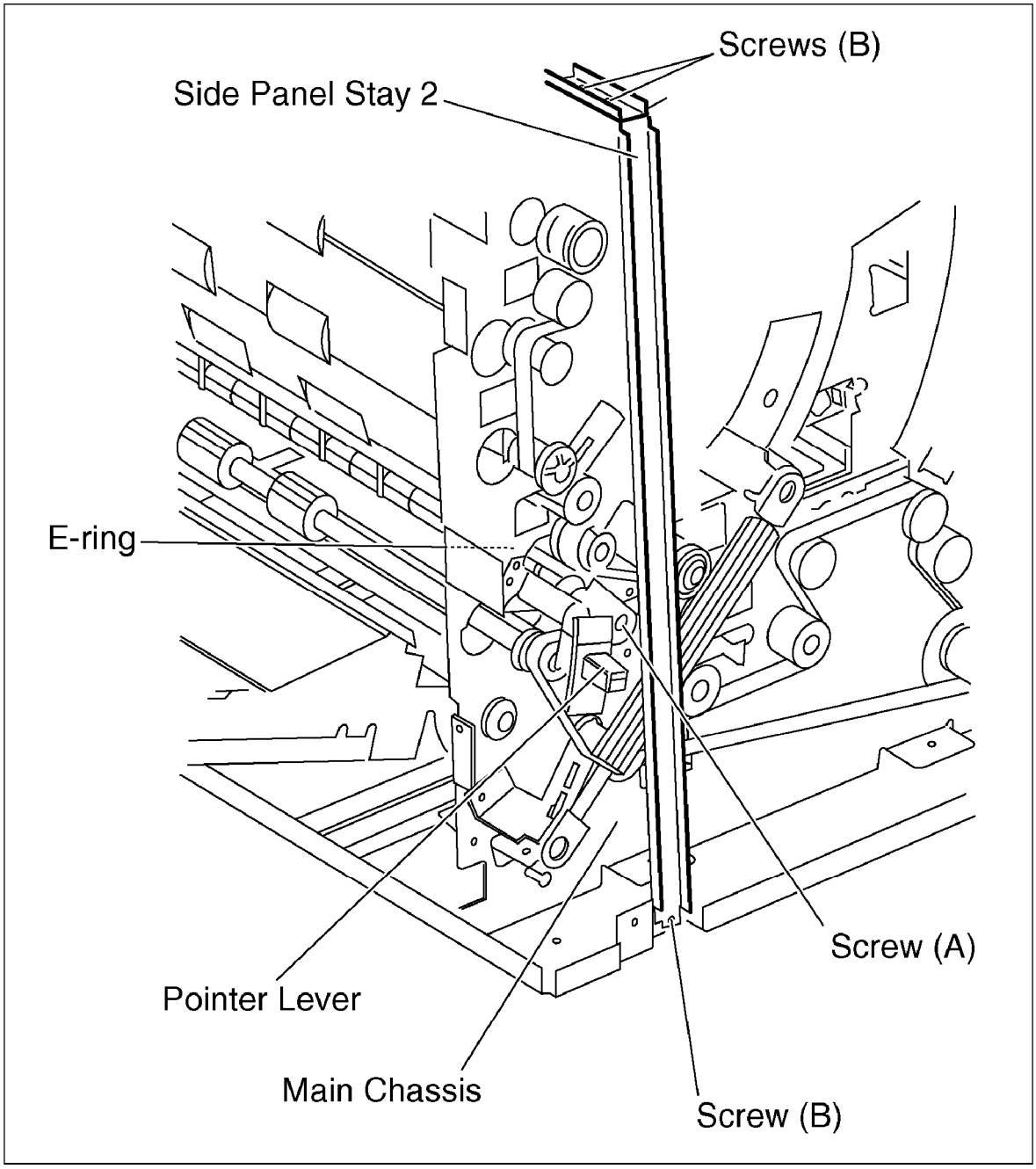


8.3.15. Pointer

1. Remove the Left Side Panel. (See 8.2.3)

2. Remove the 3 screws (B) to remove the Side Panel Stay 2.

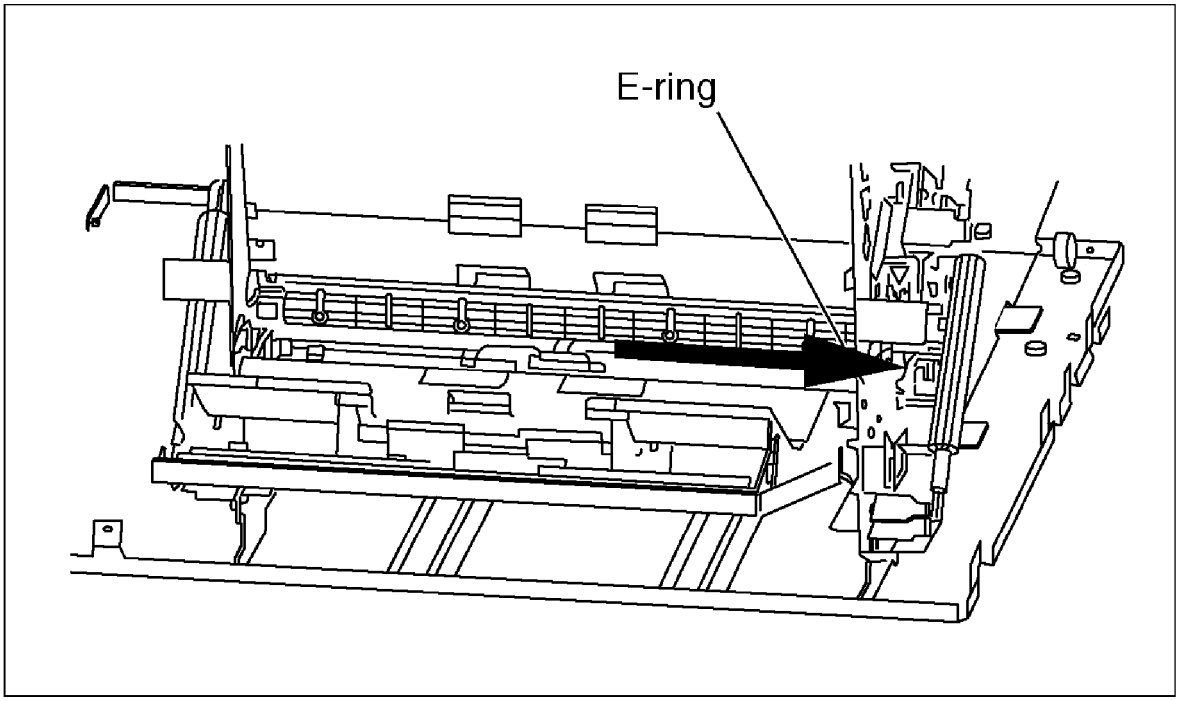
3. Remove the screw (A) of the Pointer Shaft.



4. Remove the E-ring in the right of the Pointer Shaft.

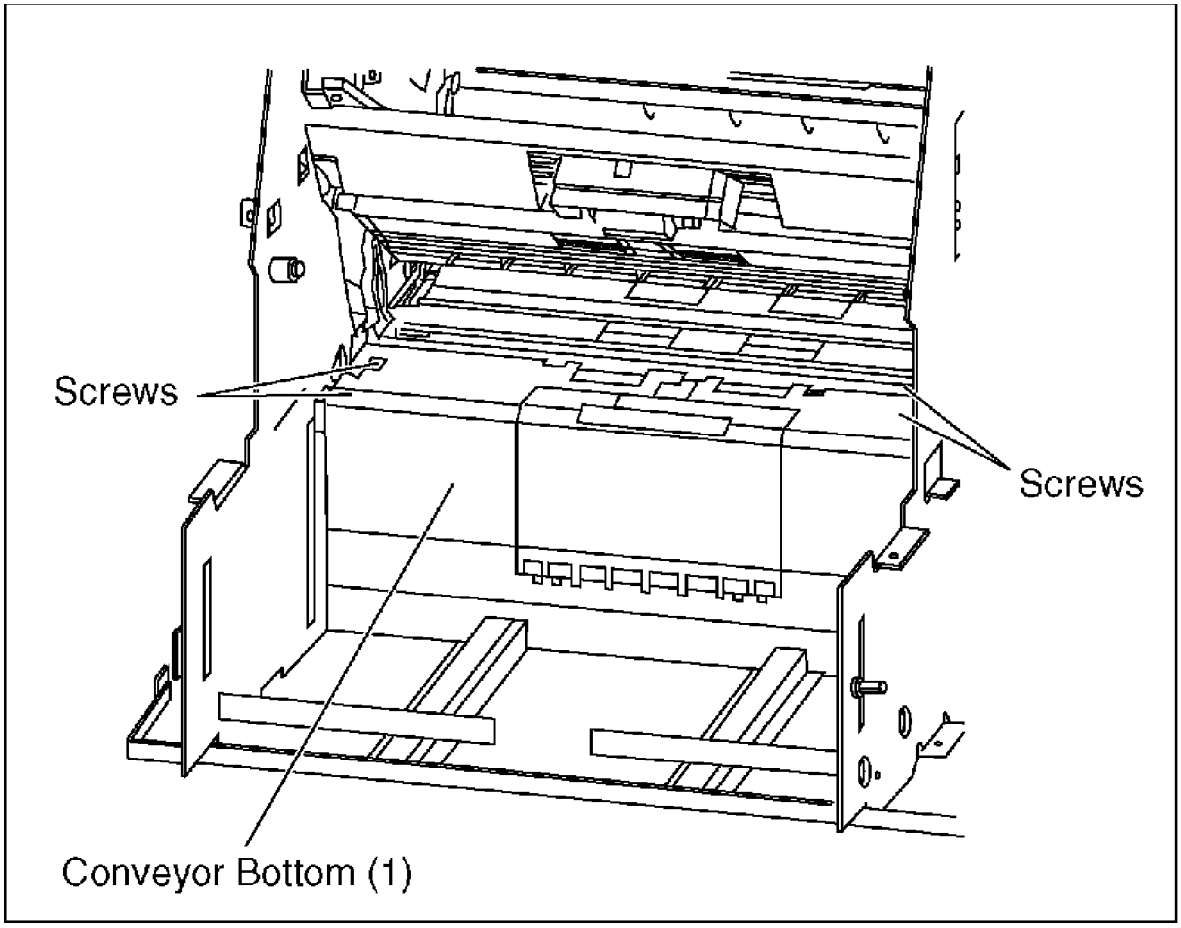
Note
The E-ring is inside of the Main Chassis.

5. Pull out the Pointer in the direction of the arrow and remove it.

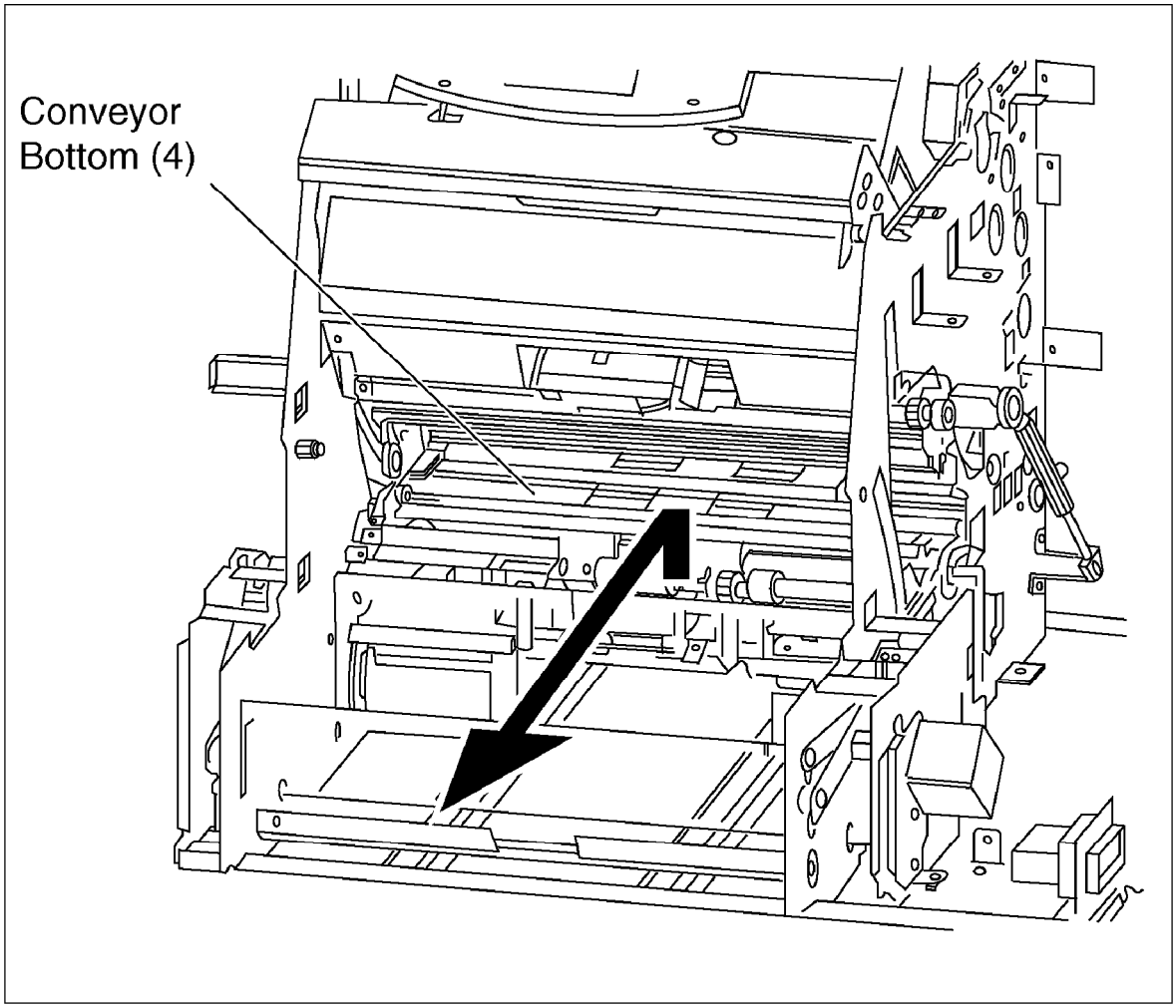


8.3.16. Drive Rollers (1) - (3)

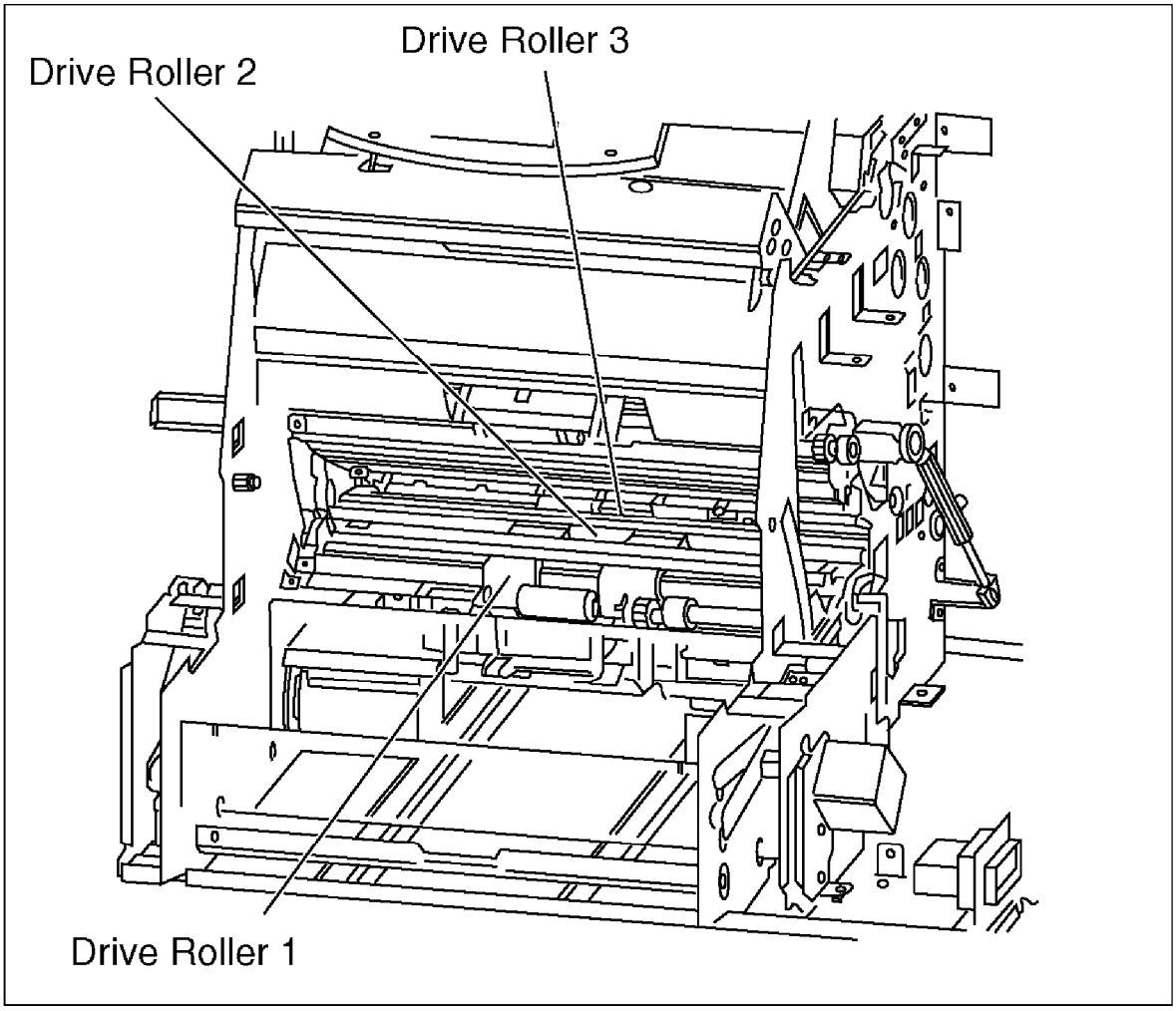
1. **Remove the Conveyor Belt 2. (See 8.3.12)**
2. **Remove the Hopper Plate. (See 8.2.6)**
3. **Open the Front Door.**
4. **Remove the 4 screws and Conveyor Bottom (1).**



5. Lift the Conveyor Bottom (4) and pull out toward the front of the unit to remove.



6. Unhook the Drive Rollers from the notching hole of chassis and remove it.



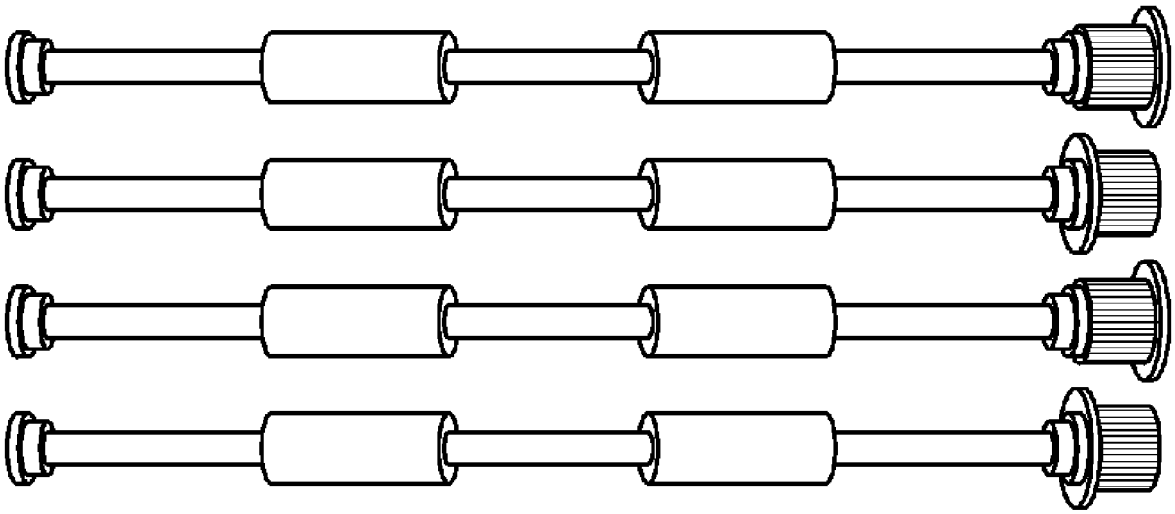
8.3.17. Conveyor Rollers (1) - (4)

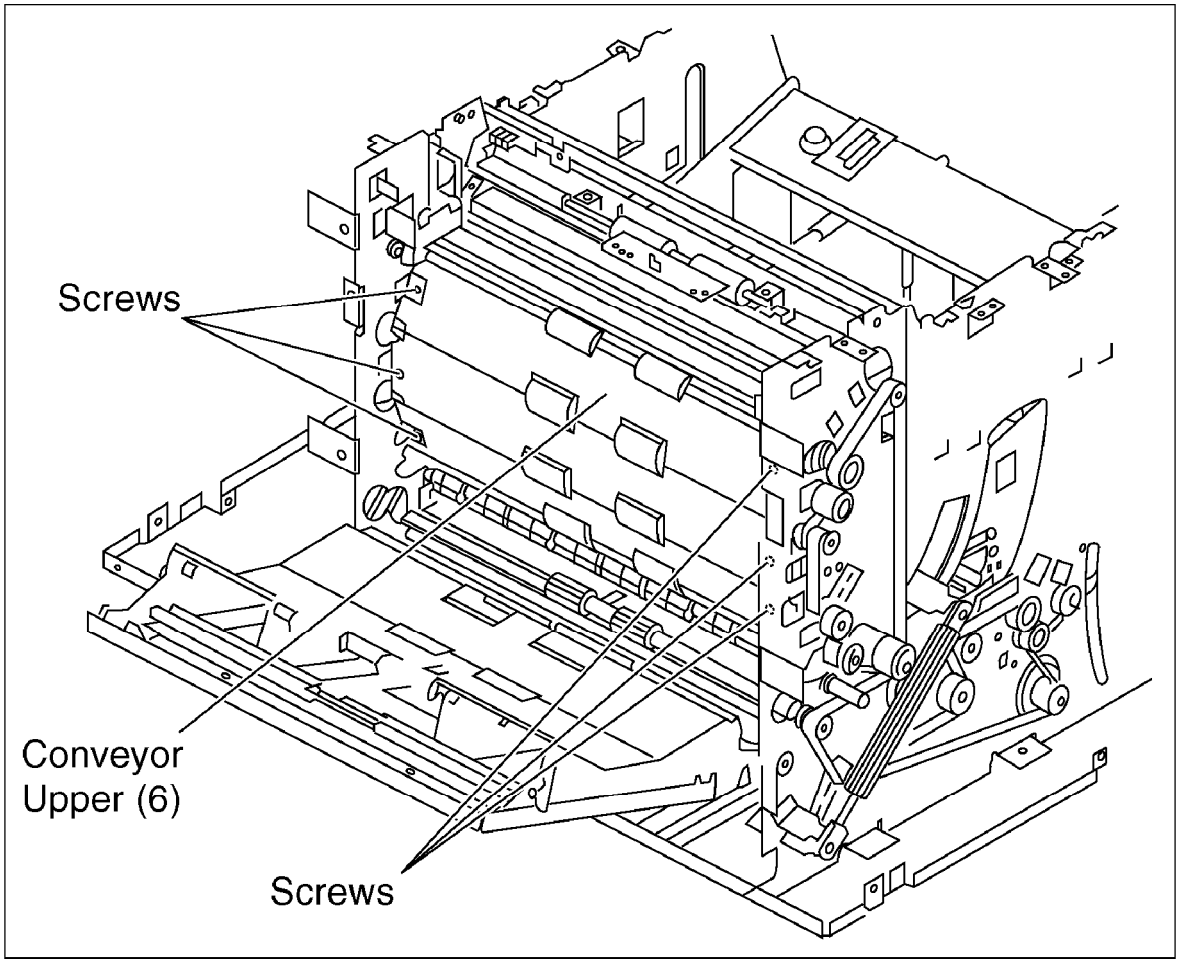
1. Remove the Conveyor Belt 1. (See 8.3.13)

2. Open the Back Door.

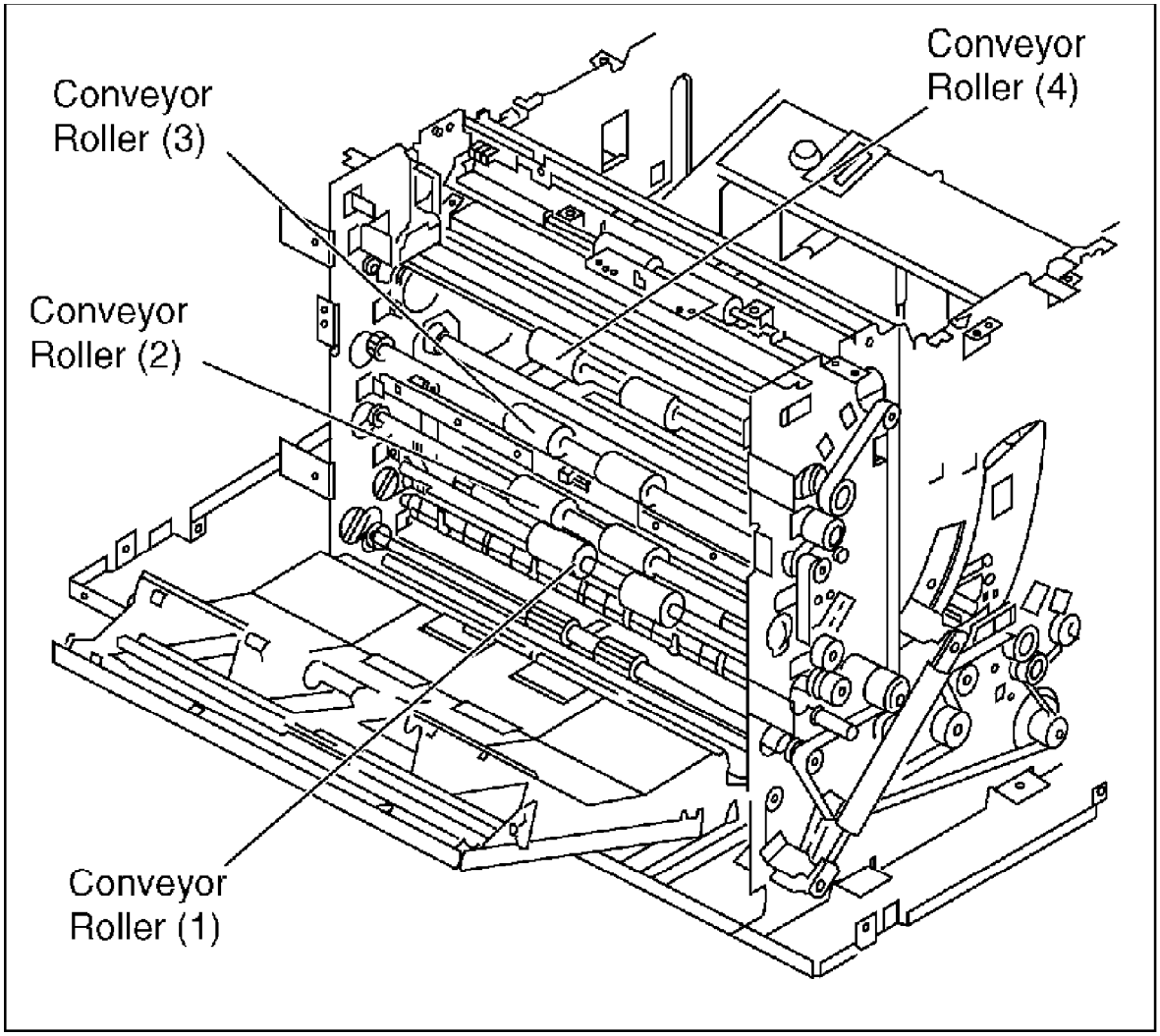
3. Remove the 6 screws and Conveyor Upper (6).

Reassembling Note
Frange of the rollers are as shown below. (Be careful not to confound the rollers with the others).





4. Unhook the Conveyor Rollers from the notching hole of chassis and remove it.

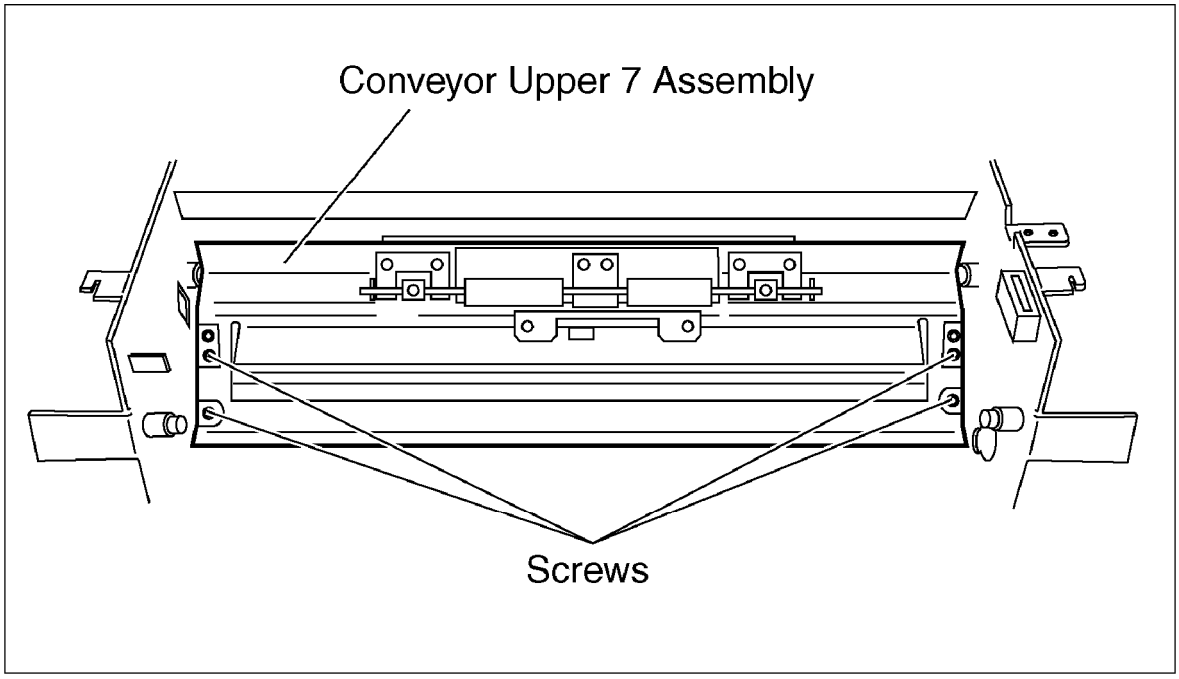


8.3.18. Front Exit Roller

1. Remove the Top Cover. (See 8.2.10)

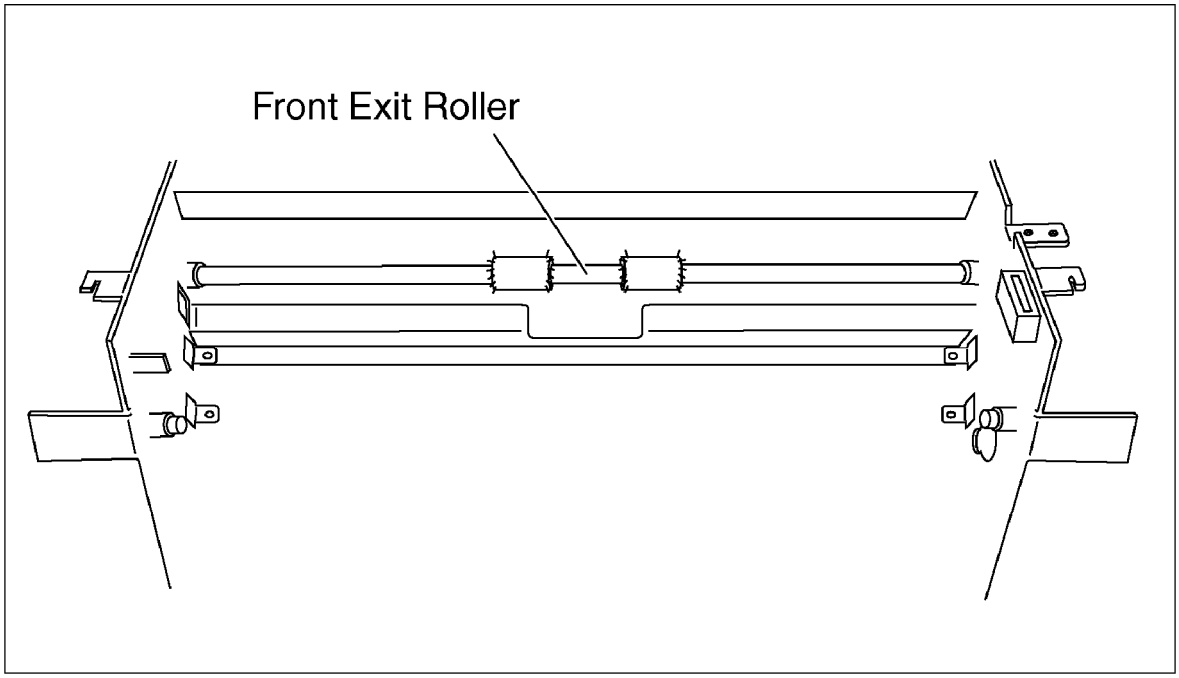
2. Remove the post Imprinter Door. (See 8.2.8)

3. Remove the 4 screws to remove the Conveyor Upper 7 Assembly.



4. Loosen the Conveyor Belt 1. (See 8.3.13-(4))

5. Unhook the Front Exit Roller from the notching hole of chassis and remove it.



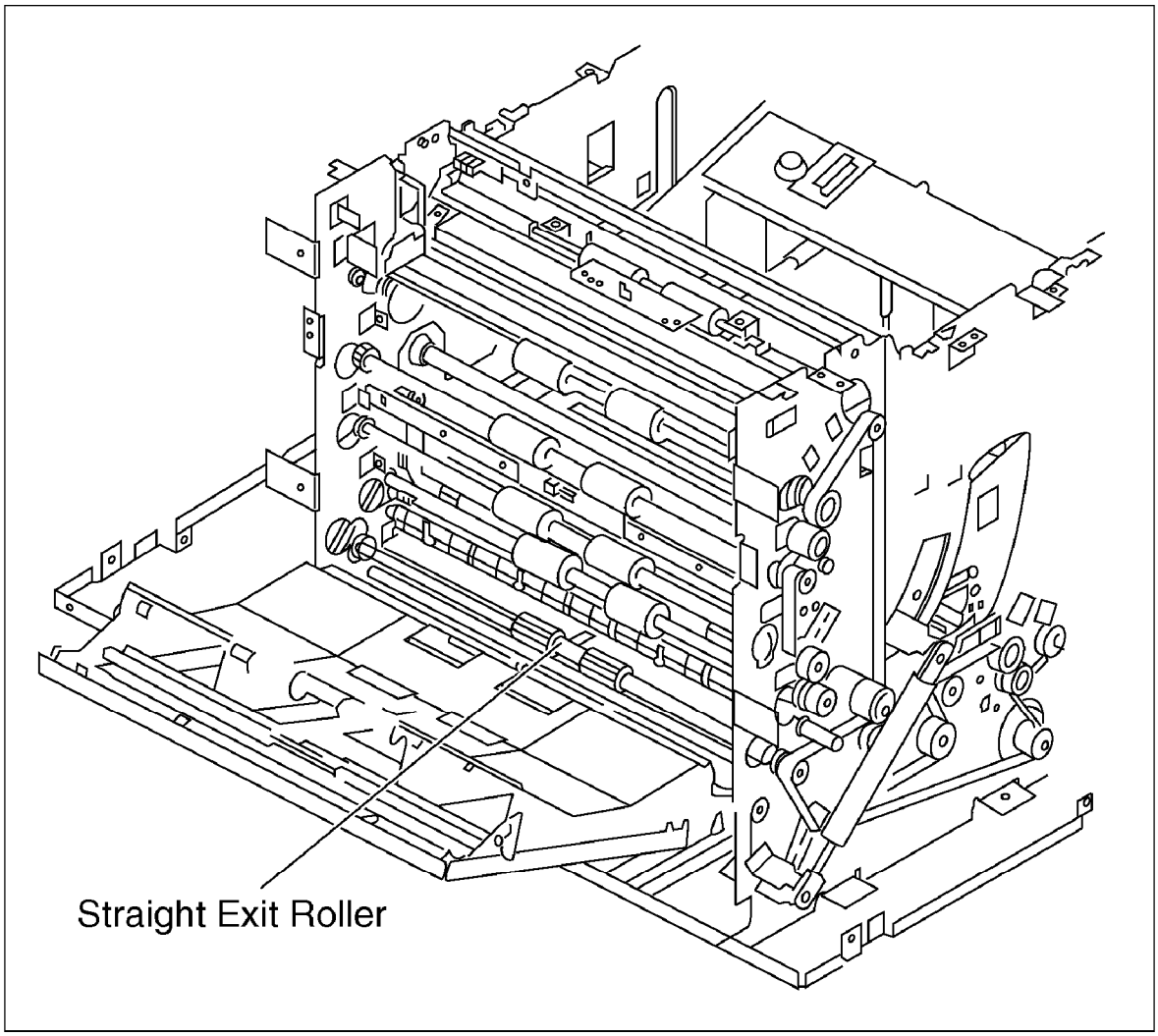
8.3.19. Straight Exit Roller

1. Remove the Conveyor Belt 2. (See 8.3.12)

2. Open the Back Door.

3. Unhook the Straight Exit Roller from the notching hole of chassis and remove

it.



8.4. Circuit Board Assemblies

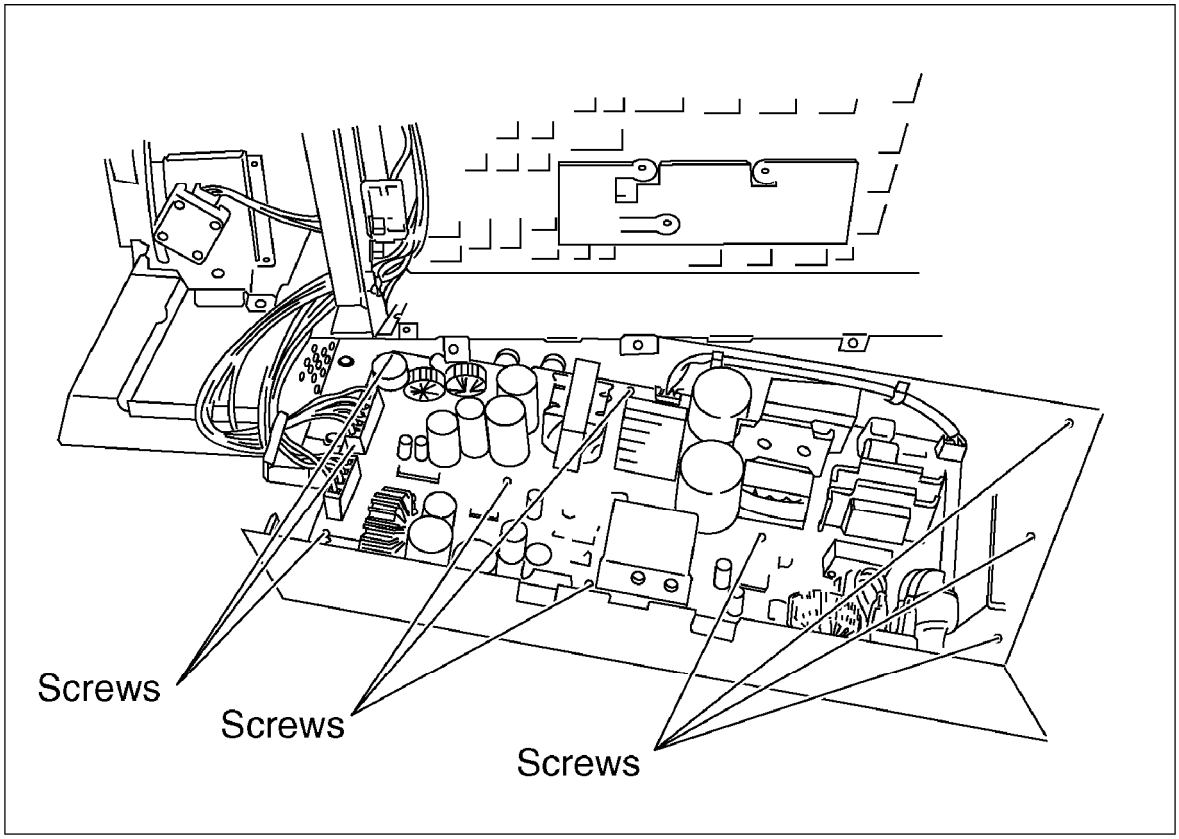
8.4.1. POWER Board

1. Remove the Power Unit. (See 8.3.4)

2. Disconnect all connectors from/to POWER Board.

Note
See SECTION 11.2 Board for connections.

3. Remove the 10 screws and remove it.



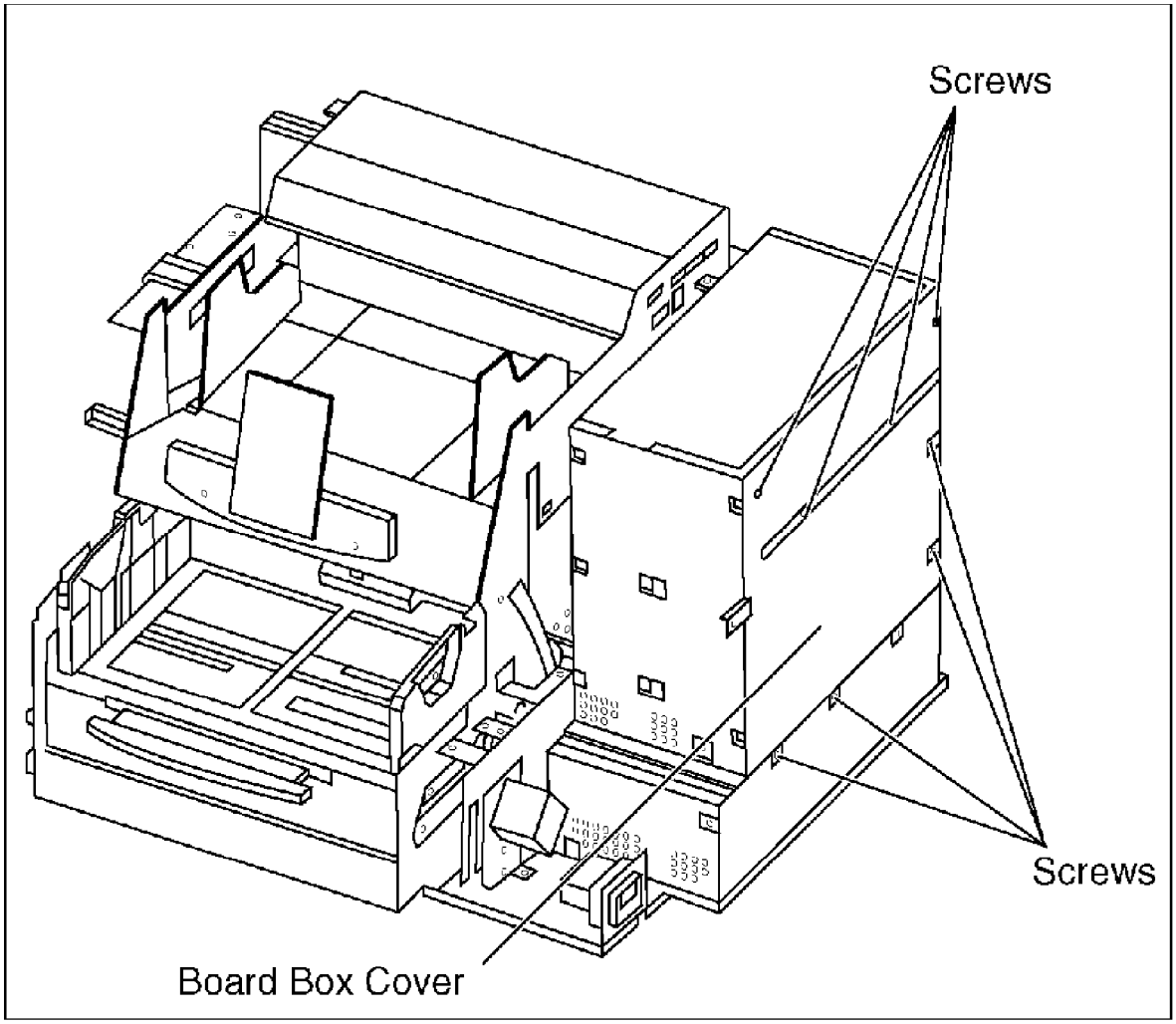
8.4.2. MAIN Board

1. Remove the Right Front Panel. (See 8.2.2)

2. Remove 8 screws and remove the Board Box Cover.

3. Disconnect all connectors from/to MAIN Board.

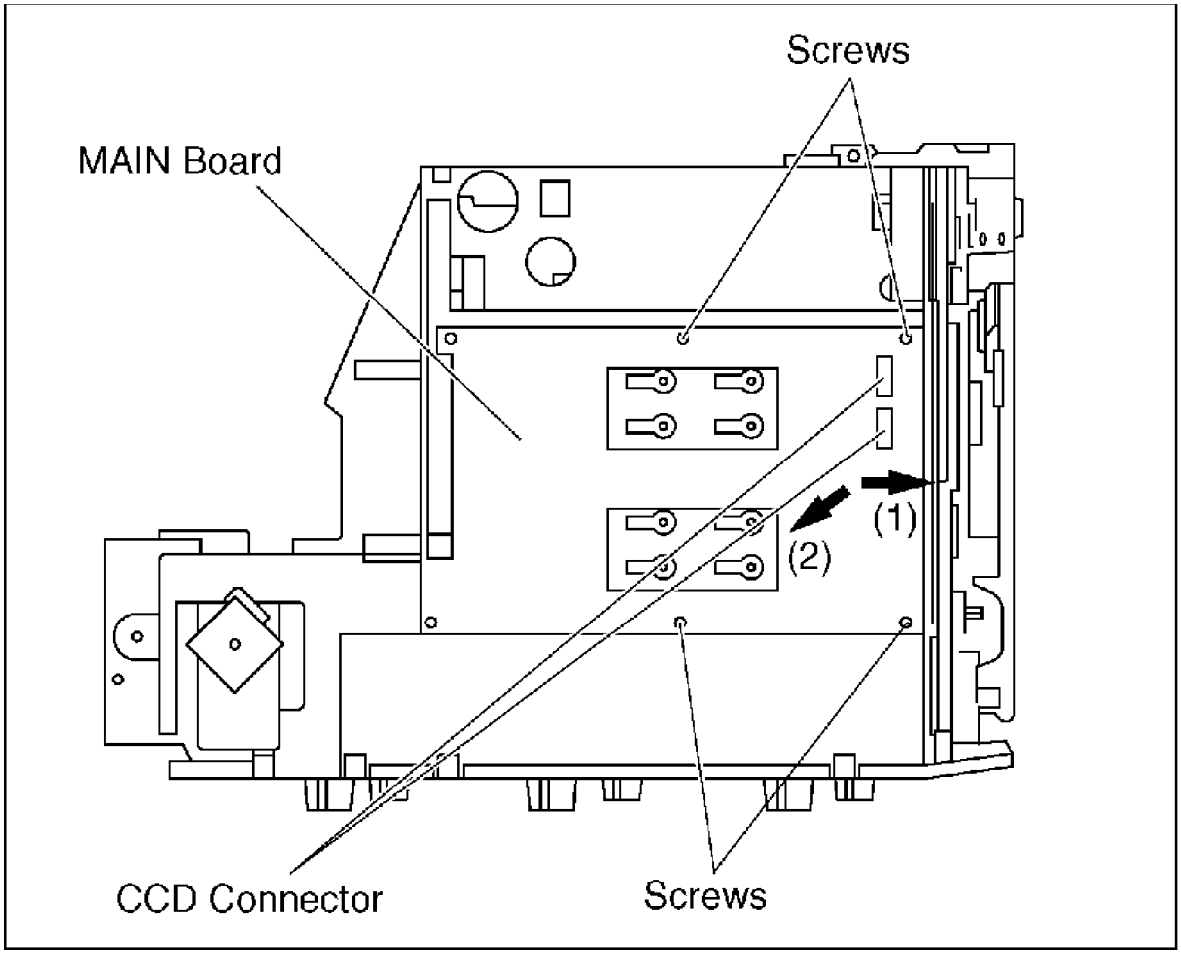
Note
See SECTION 11.2 Board for connections.



4. Disconnect the CCD Cable.

5. Remove the 4 screws.

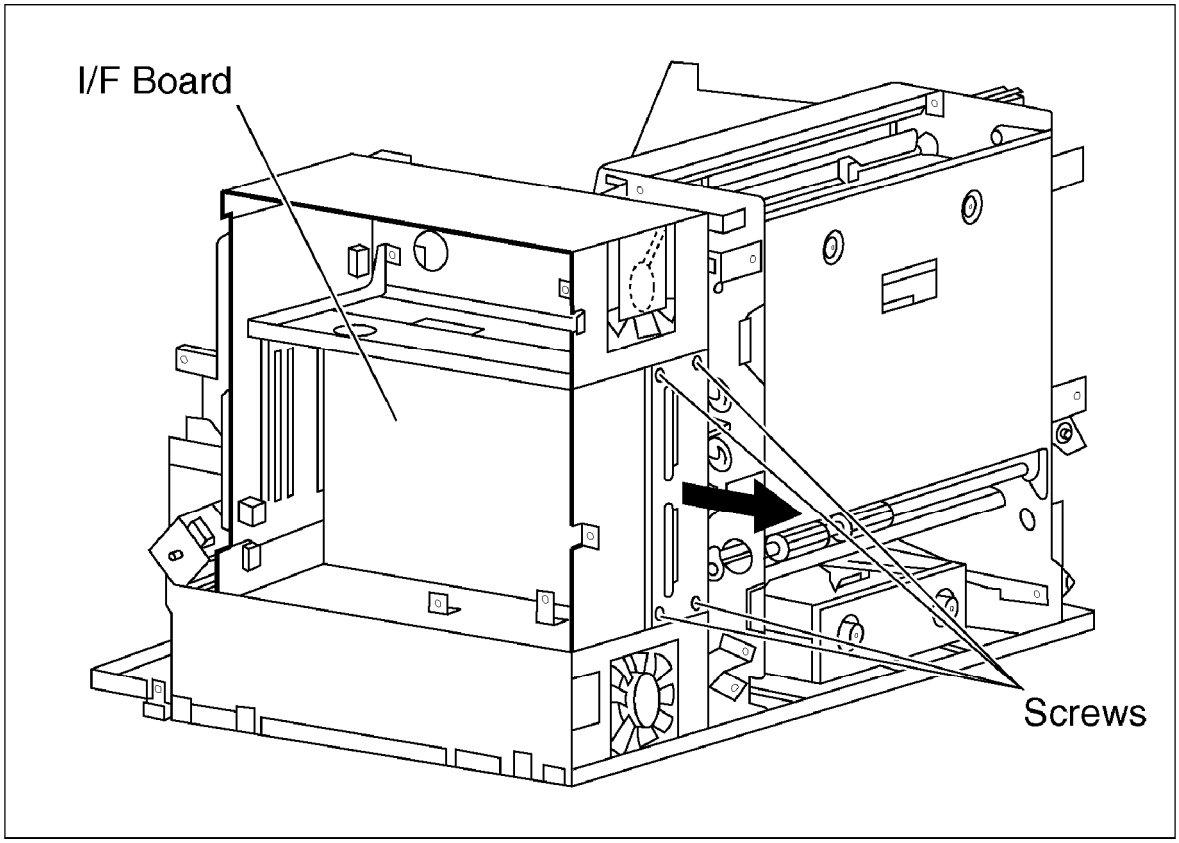
6. Pull out the MAIN Board in the direction of the arrow (1) to (2).



8.4.3. I/F Board

1. Remove 4 screws.

2. Pull out the I/F Board in the direction of the arrow.



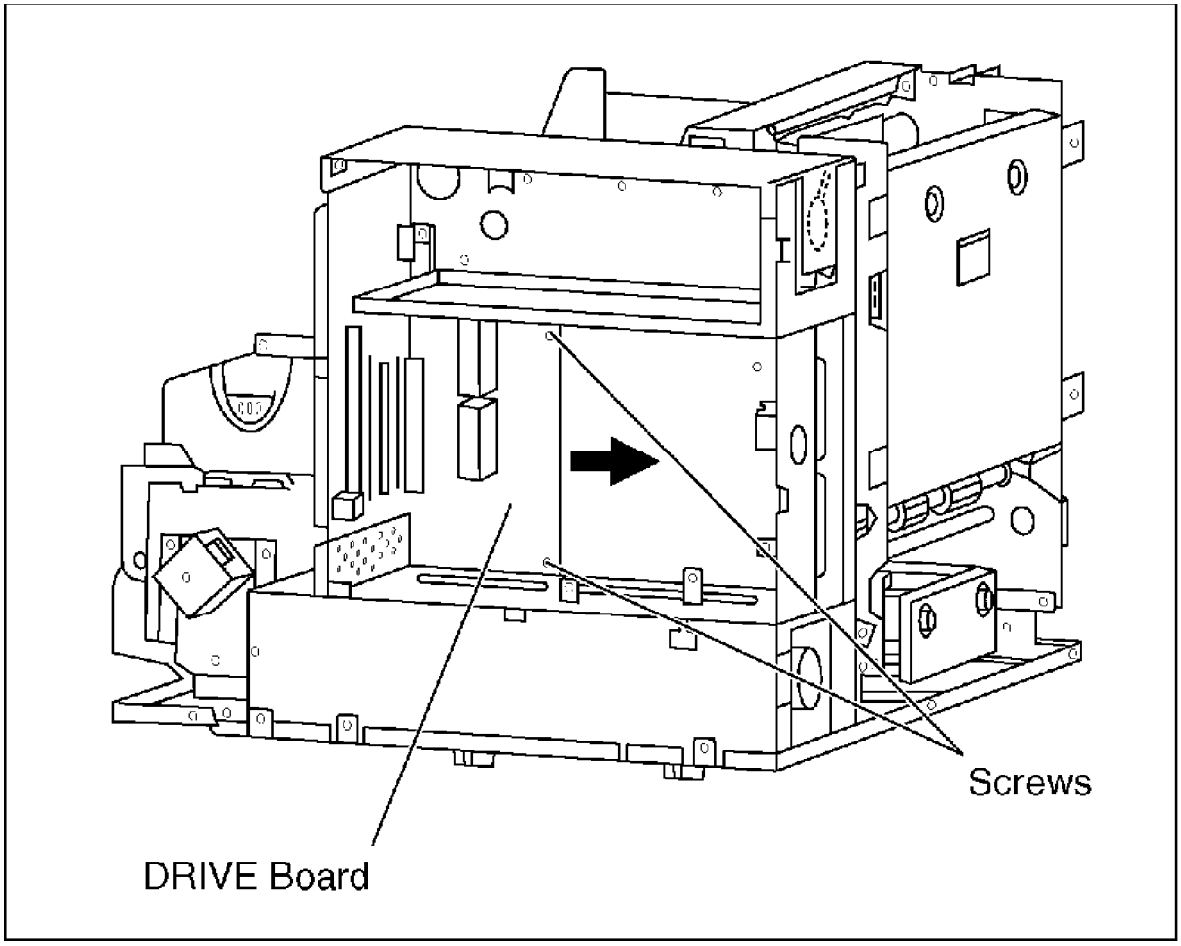
8.4.4. DRIVE Board

1. Remove the MAIN Board. (See 8.4.2)

2. Remove the I/F Board. (See 8.4.3)

3. Remove the 2 screws.

4. Pull out the DRIVE Board in the direction of the arrow.



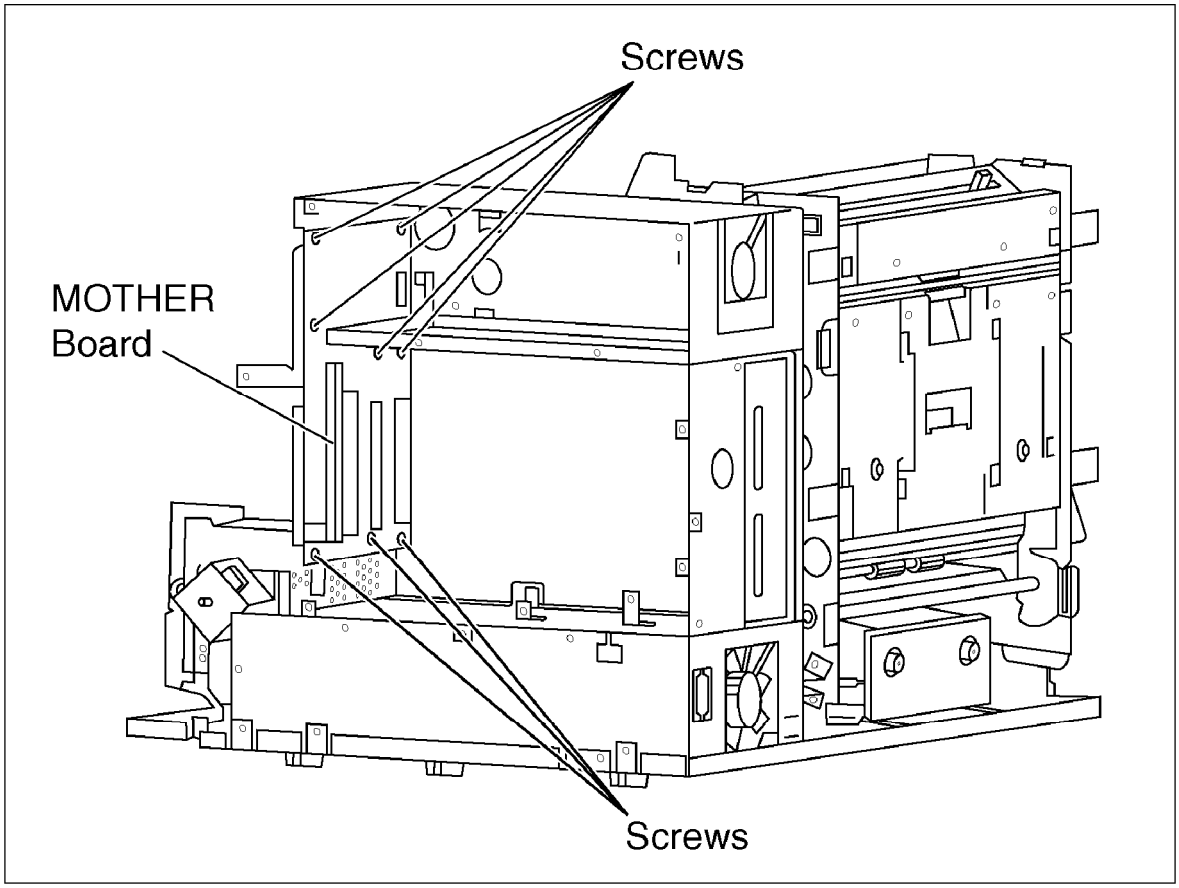
8.4.5. MOTHER Board

1. Remove the DRIVE Board. (See 8.4.4)

2. Disconnect all connectors from/to MOTHER Board.

Note
See SECTION 11.2 Board for connections.

3. Remove the 8 screws and remove it.

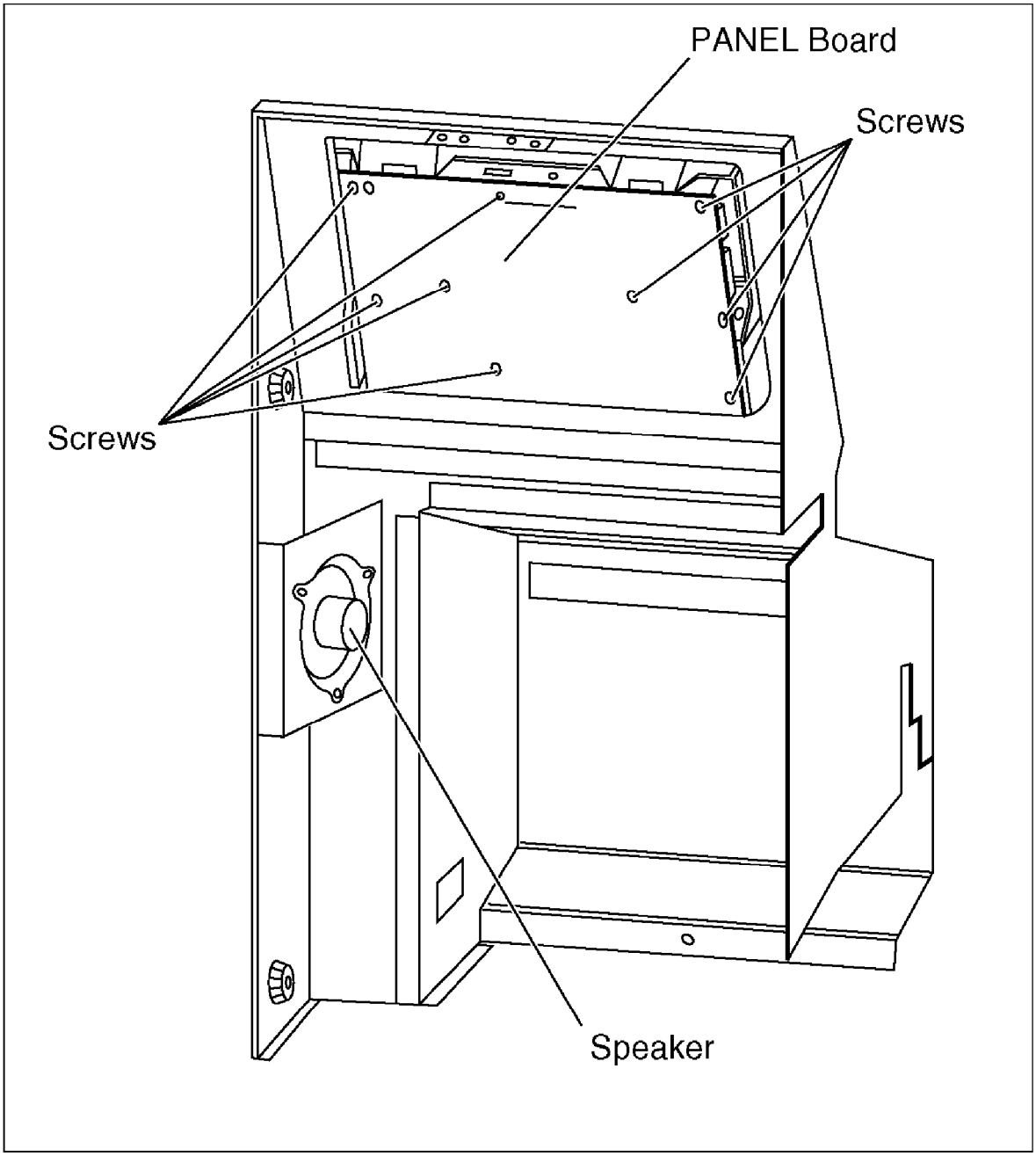


8.4.6. PANEL Board

1. Remove the Right Front Panel. (See 8.2.2)

2. Remove the 9 screws.

3. Disconnect the Speaker Cable and remove the PANEL Board.

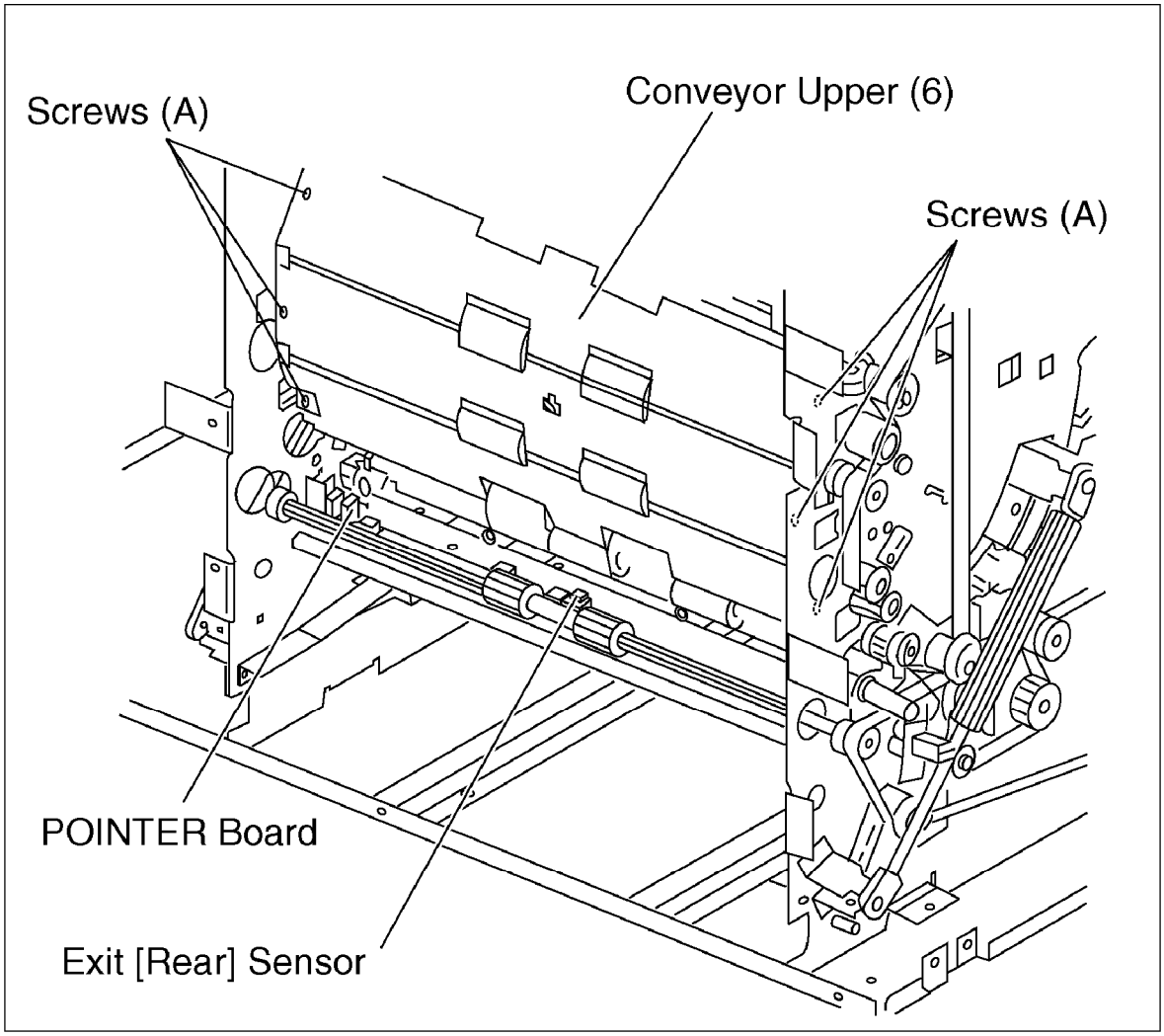


8.4.7. POINTER Board, Exit [Rear] Sensor

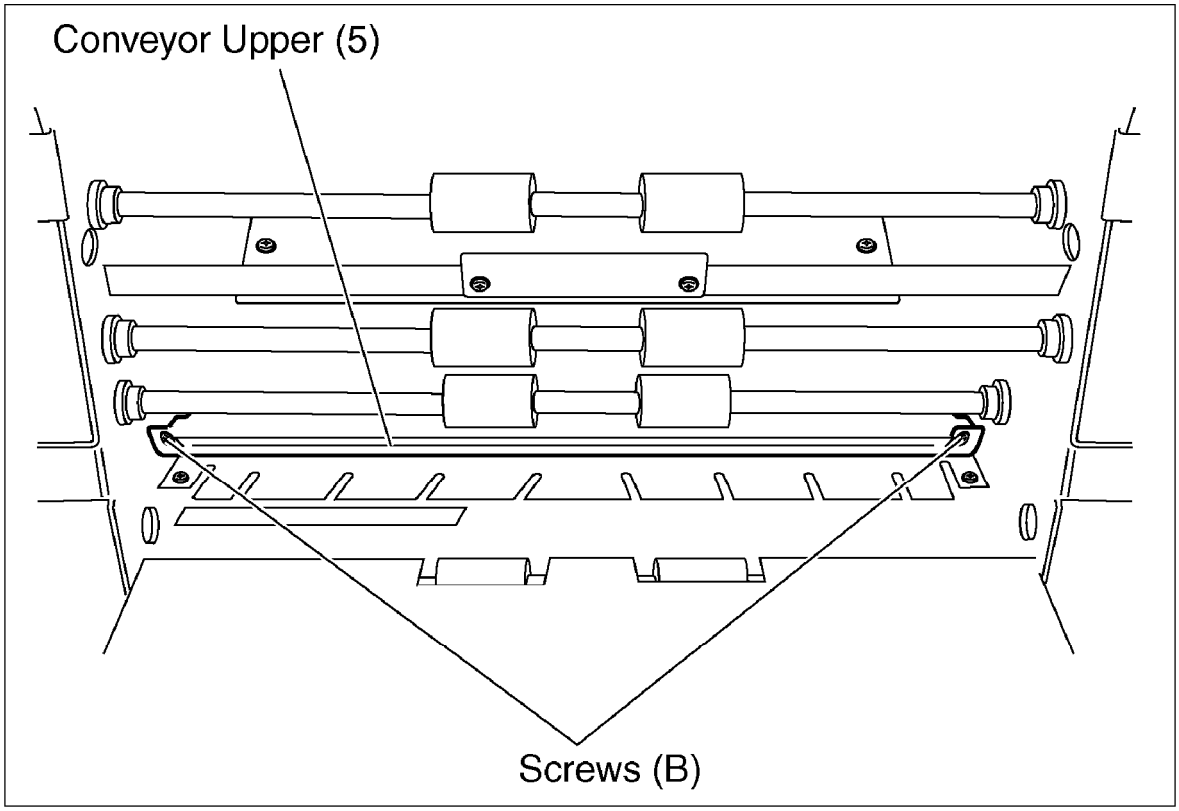
1. Remove the Pointer. (See 8.3.15)

2. Remove the Straight Exit Roller. (See 8.3.19)

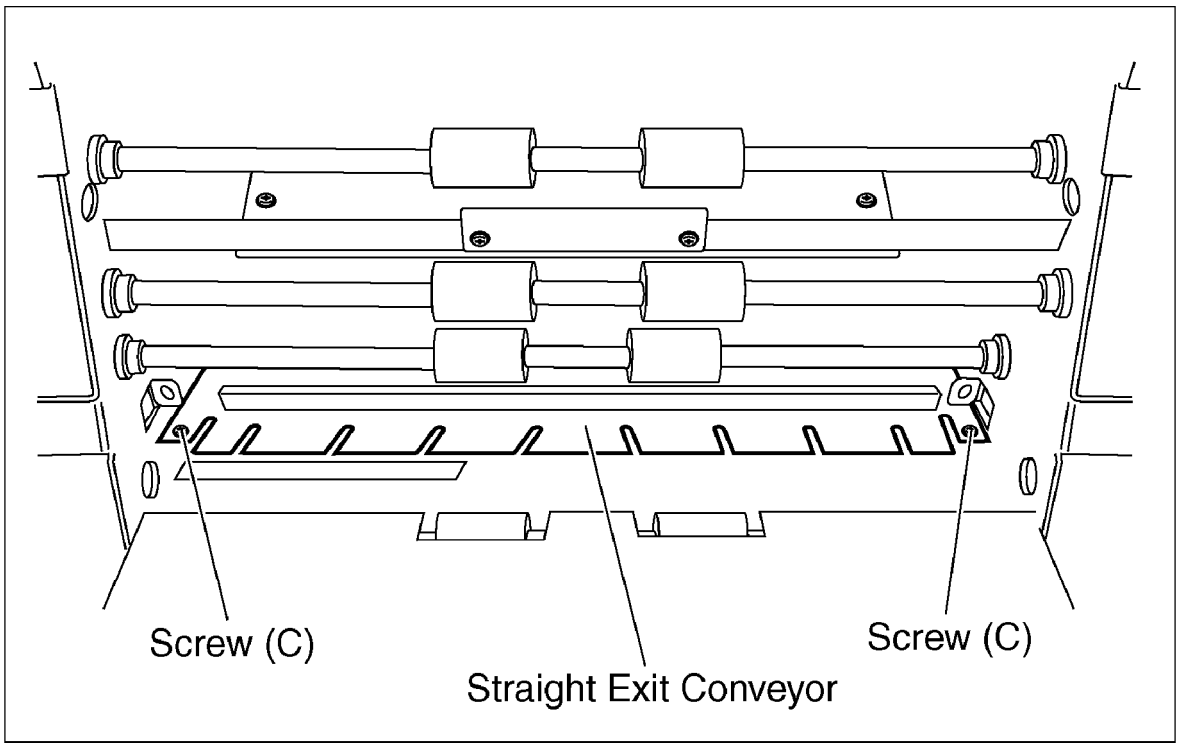
3. Remove the 6 screws (A) and Conveyor Upper (6).



4. Remove the 2 screws (B) and Conveyor Upper (5).

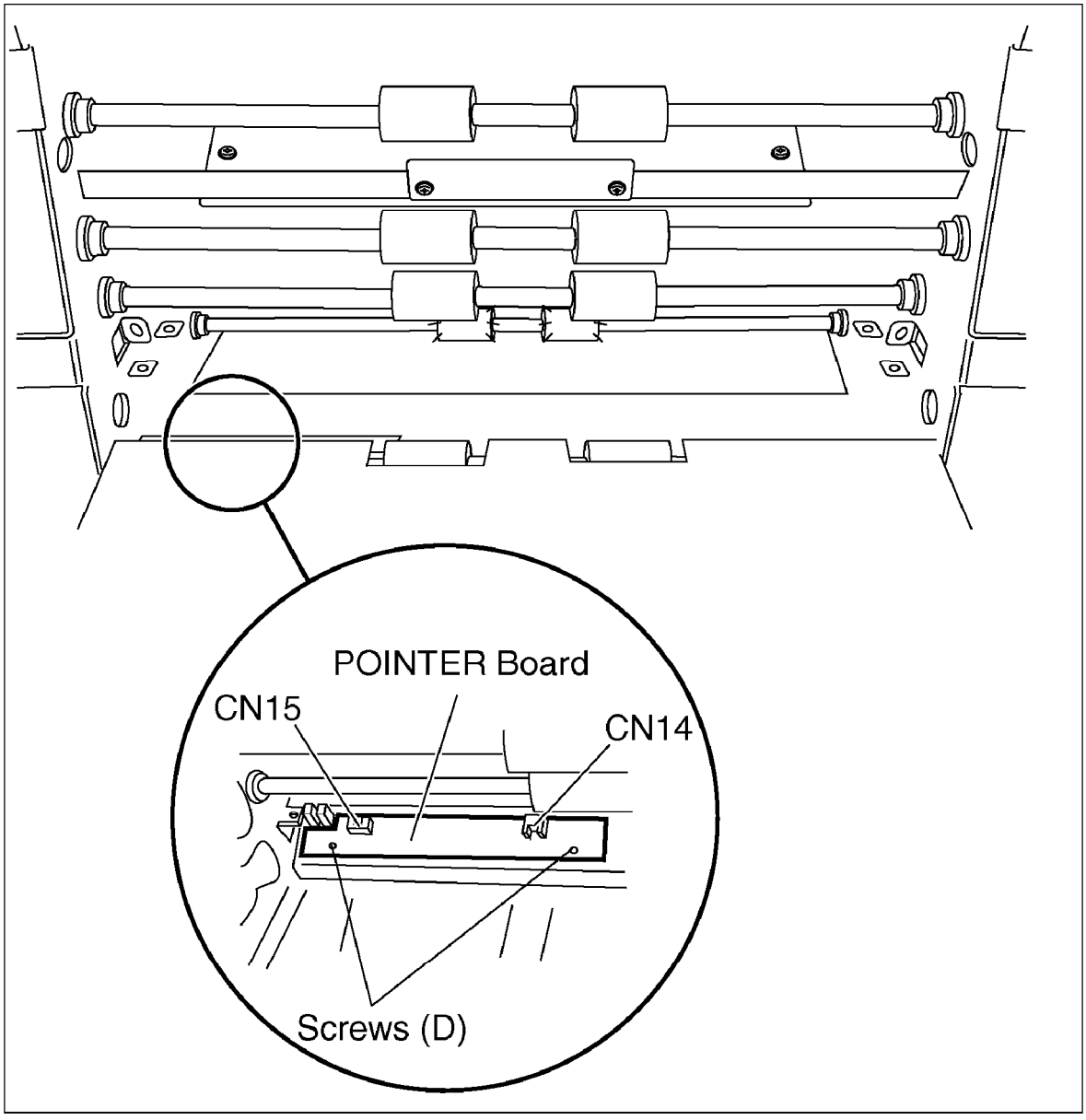


5. Remove the 2 screws (C) and the Straight Exit Conveyor.

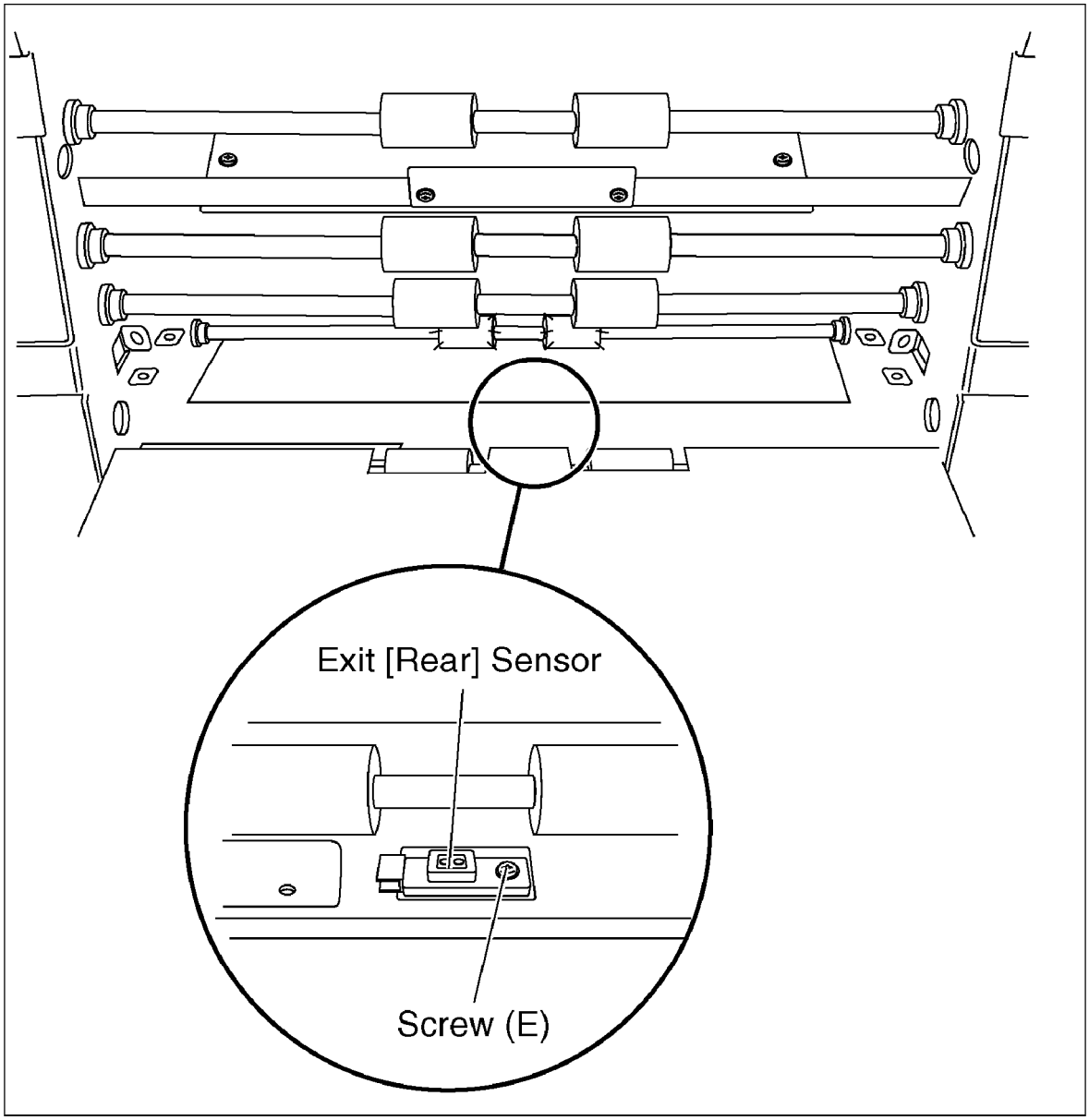


6. Disconnect CN14 and CN15.

7. Remove the 2 screws (D) and remove the POINTER Board.



8. Remove the screw (E) and remove the Exit [Rear] Sensor.

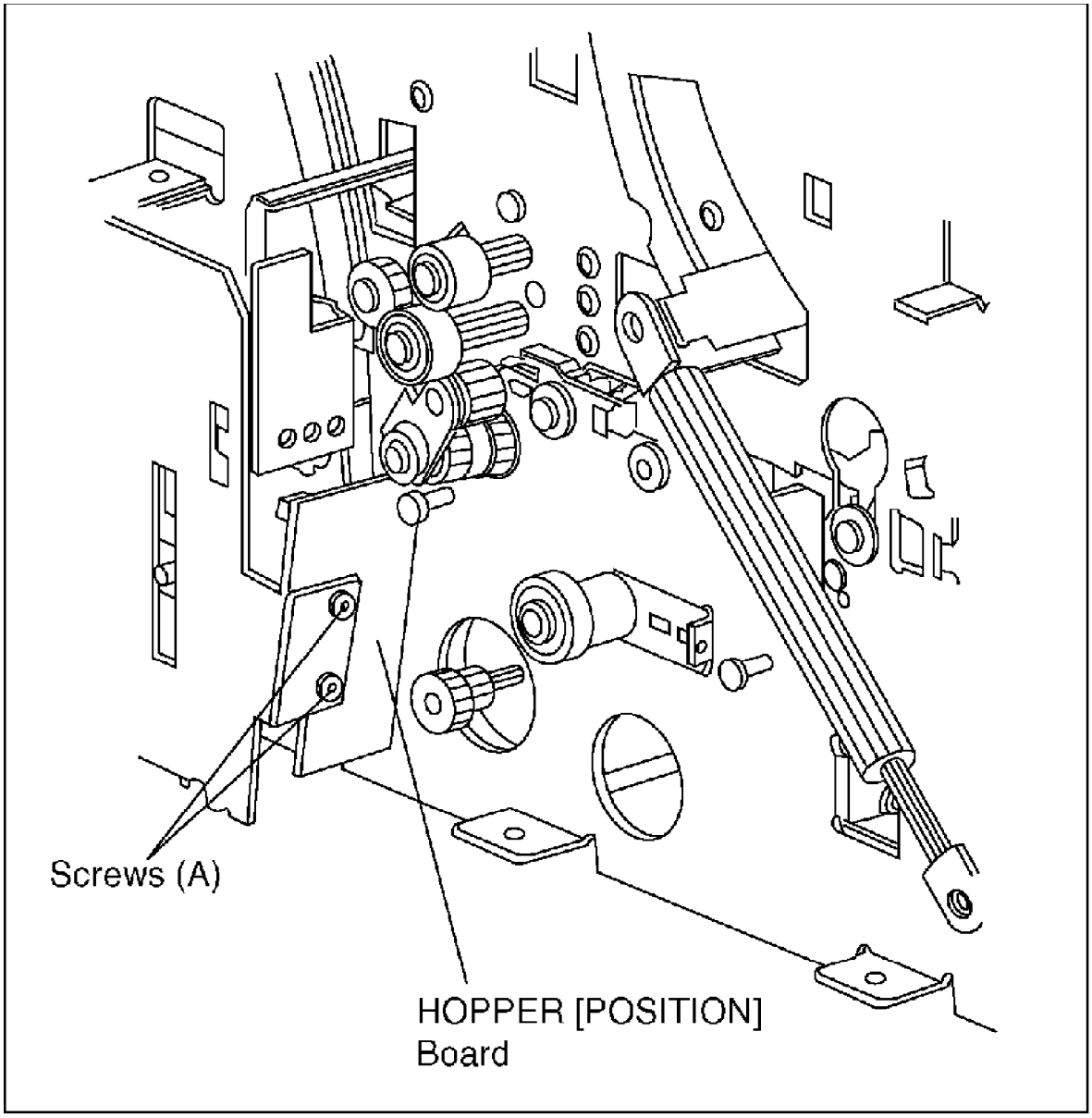


8.4.8. HOPPER [POISITION] Board, HOPPER [ANGLE] Board

1. Remove the Board Box & Power Box. (See 8.3.3)

2. Disconnect the CN7 and CN9.

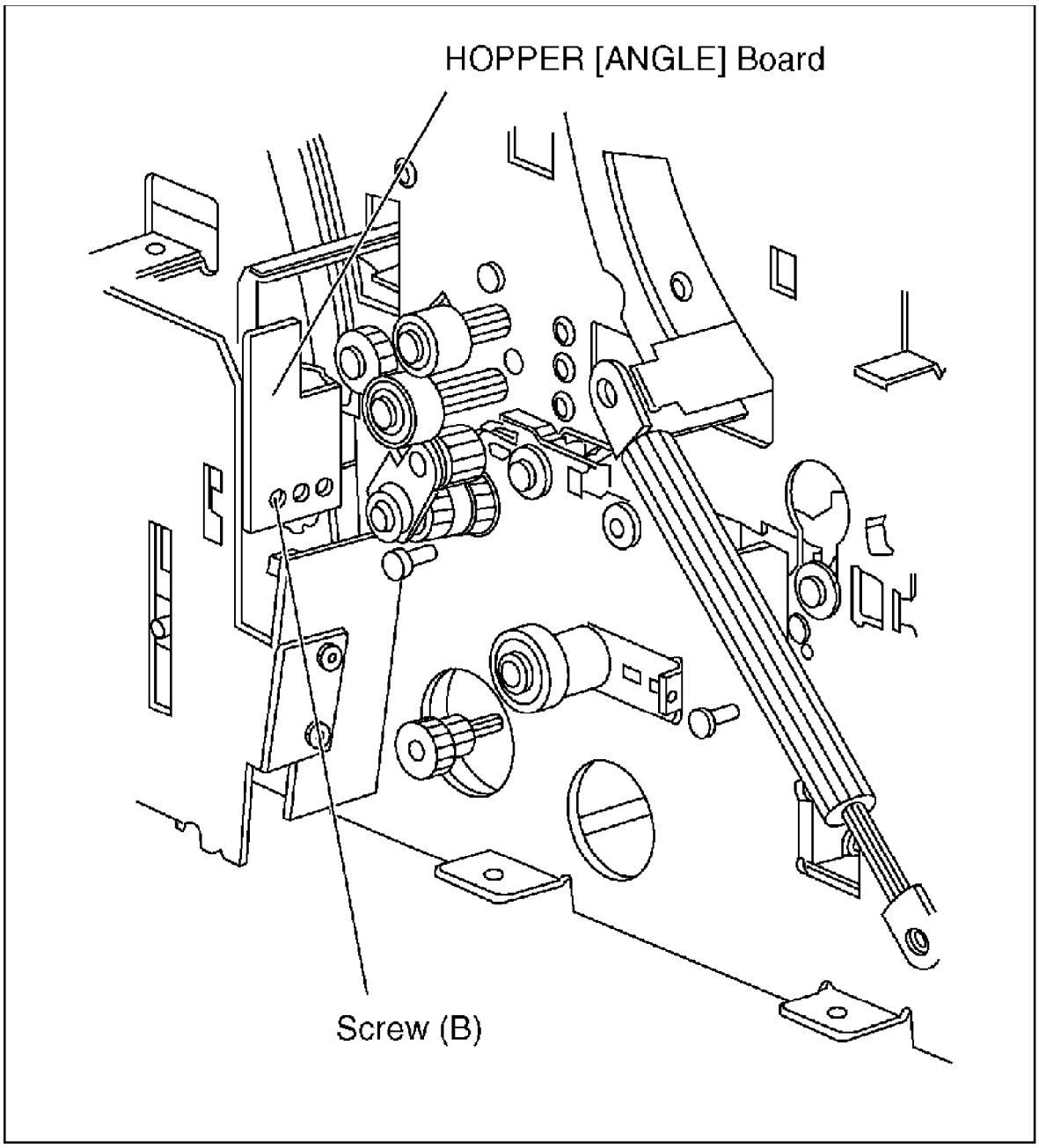
3. Remove the 2 screws (A) and remove the HOPPER [POSITION] Board.



4. Remove the screw (B).

5. Disconnect the CN5.

6. Remove the screw and remove the HOPPER [ANGLE] Board.

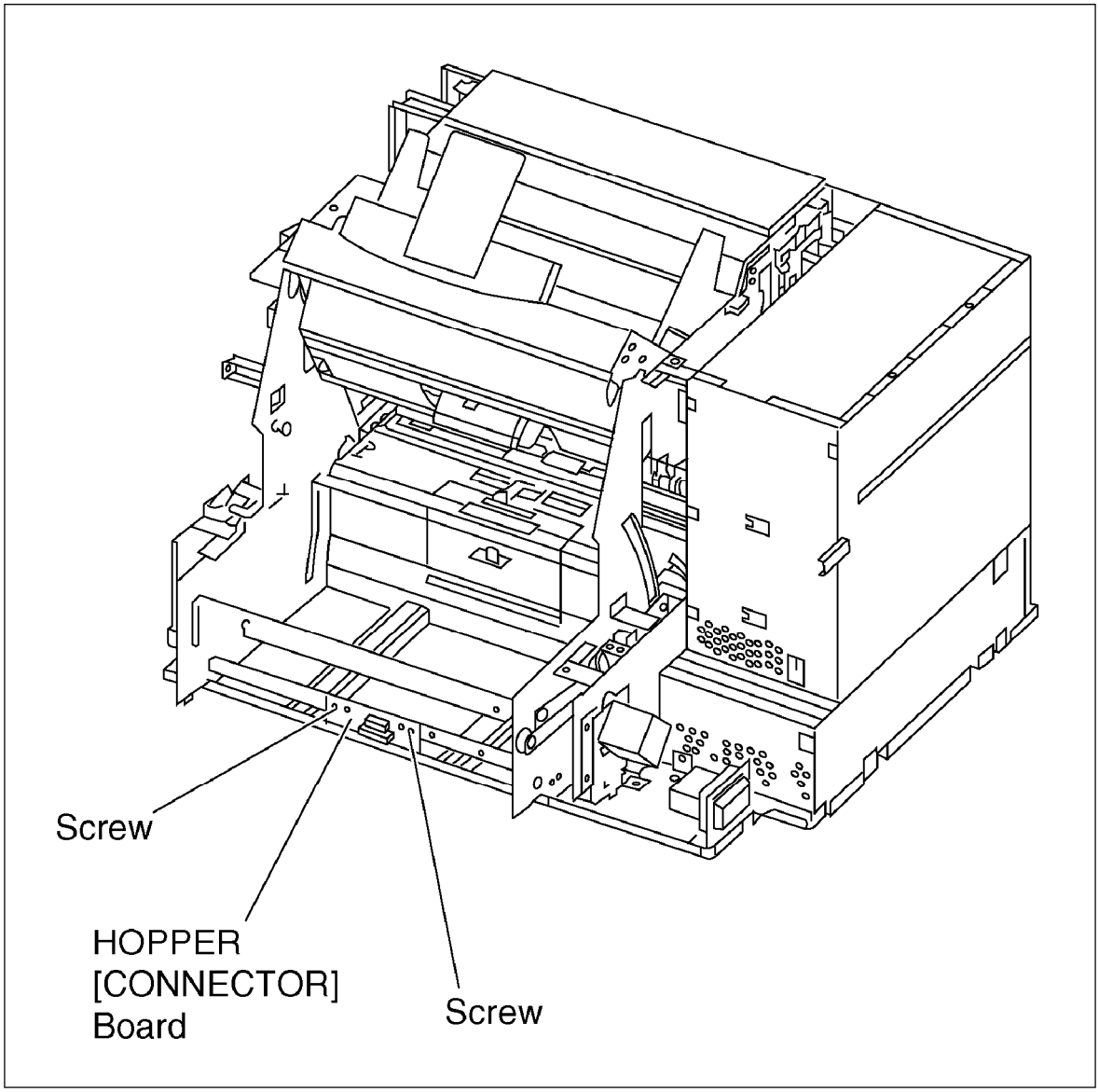


8.4.9. HOPPER [CONNECTOR] Board

1. Remove the Hopper Plate. (See 8.2.6)

2. Disconnect the CN8.

3. Remove the 2 screws and remove it.



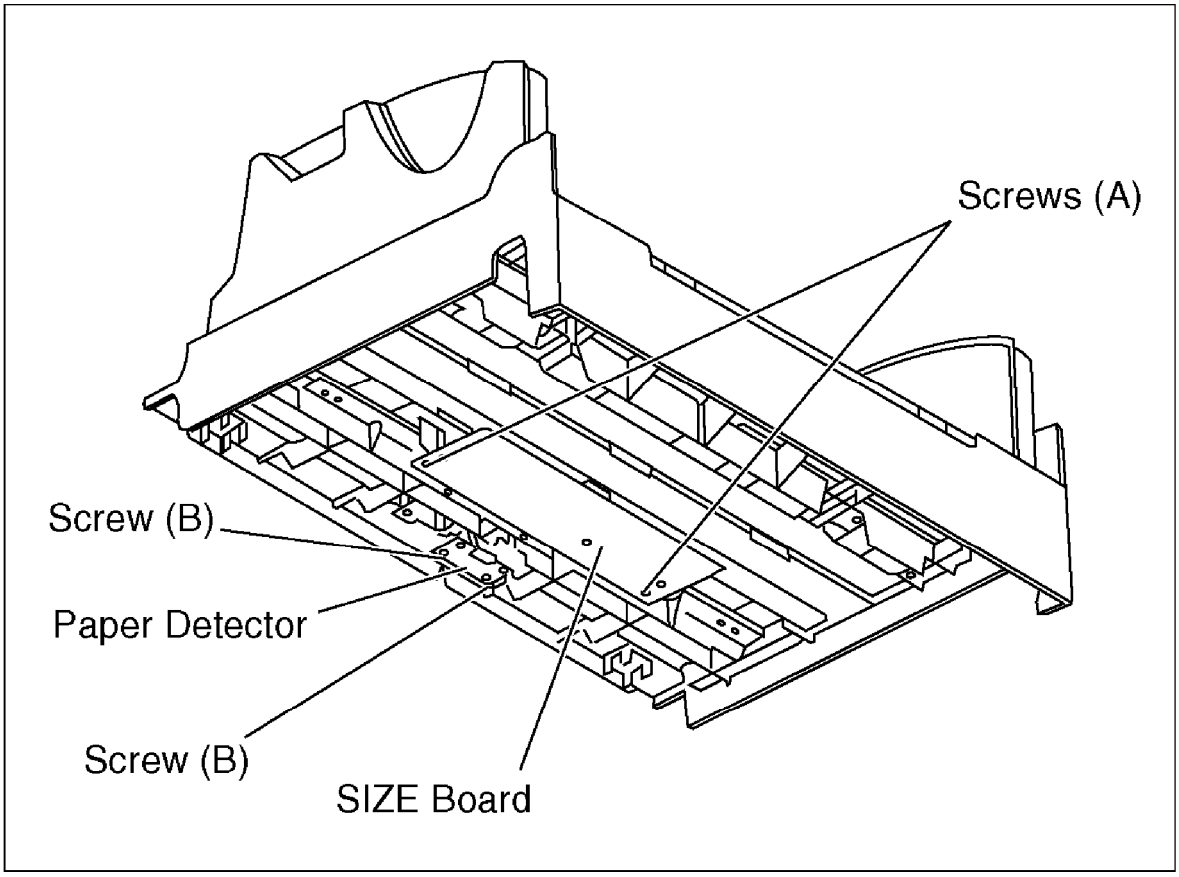
8.4.10. SIZE Board, Paper Detector

1. Remove the Hopper Plate. (See 8.2.6)

2. Disconnect the CN3 and CN4.

3. Remove the 2 screws (A) and remove SIZE Board.

4. Remove the 2 screws (B) and remove Paper Detector.



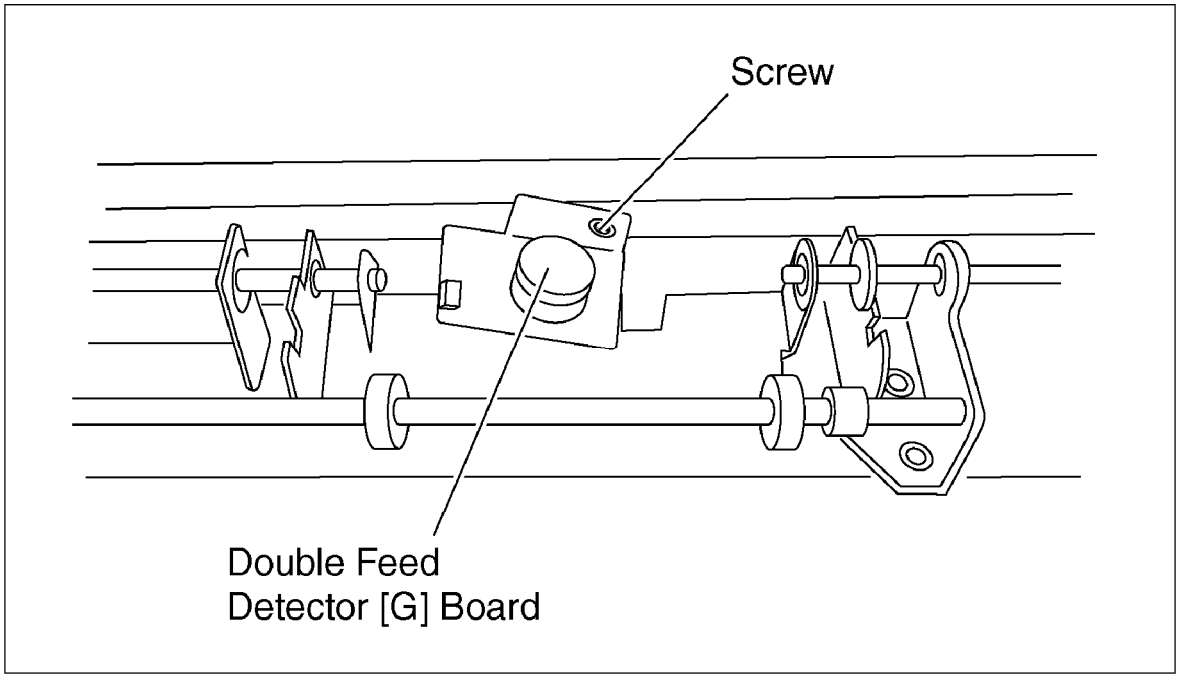
8.4.11. DOUBLE FEED DETECTOR [G] Board

1. Open the Front Door.

2. Remove the Retard Roller. (See 7.5.2)

3. Remove the 1 screw to remove the DOUBLE FEED DETECTOR [G] Board with the plate.

4. Remove the 1 screw on the DOUBLE FEED DETECTOR [G] Board.

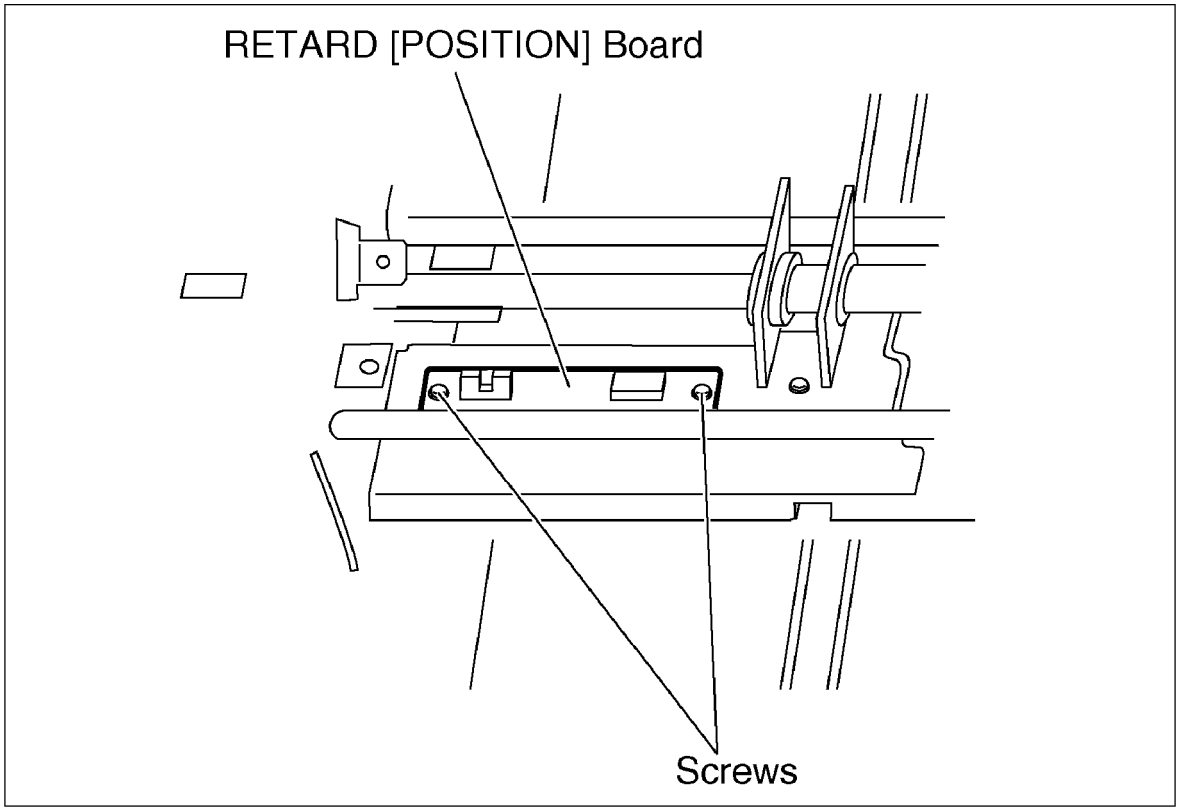


8.4.12. RETARD [POSITION] Board

1. Remove the Conveyor Bottom 1. (See 8.3.16-(3), (4))

2. Release the 2 Clips on the RETARD [POSITION] Board.

3. Disconnect the CN18.

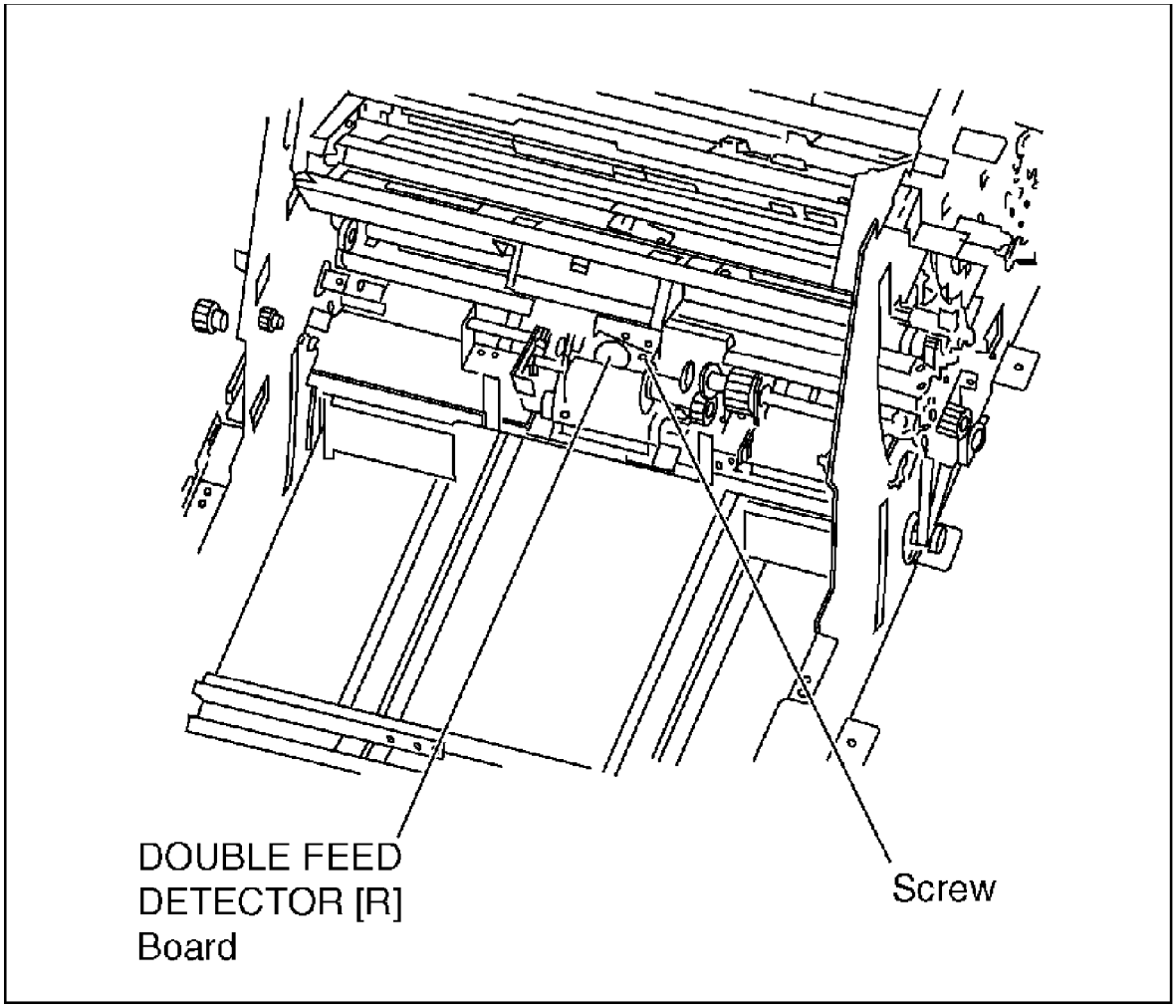


8.4.13. DOUBLE FEED DETECTOR [R] Board

1. Remove the Front Side Optical Unit. (See 8.3.1)

2. Remove the 1 screw.

3. Disconnect the CN21.



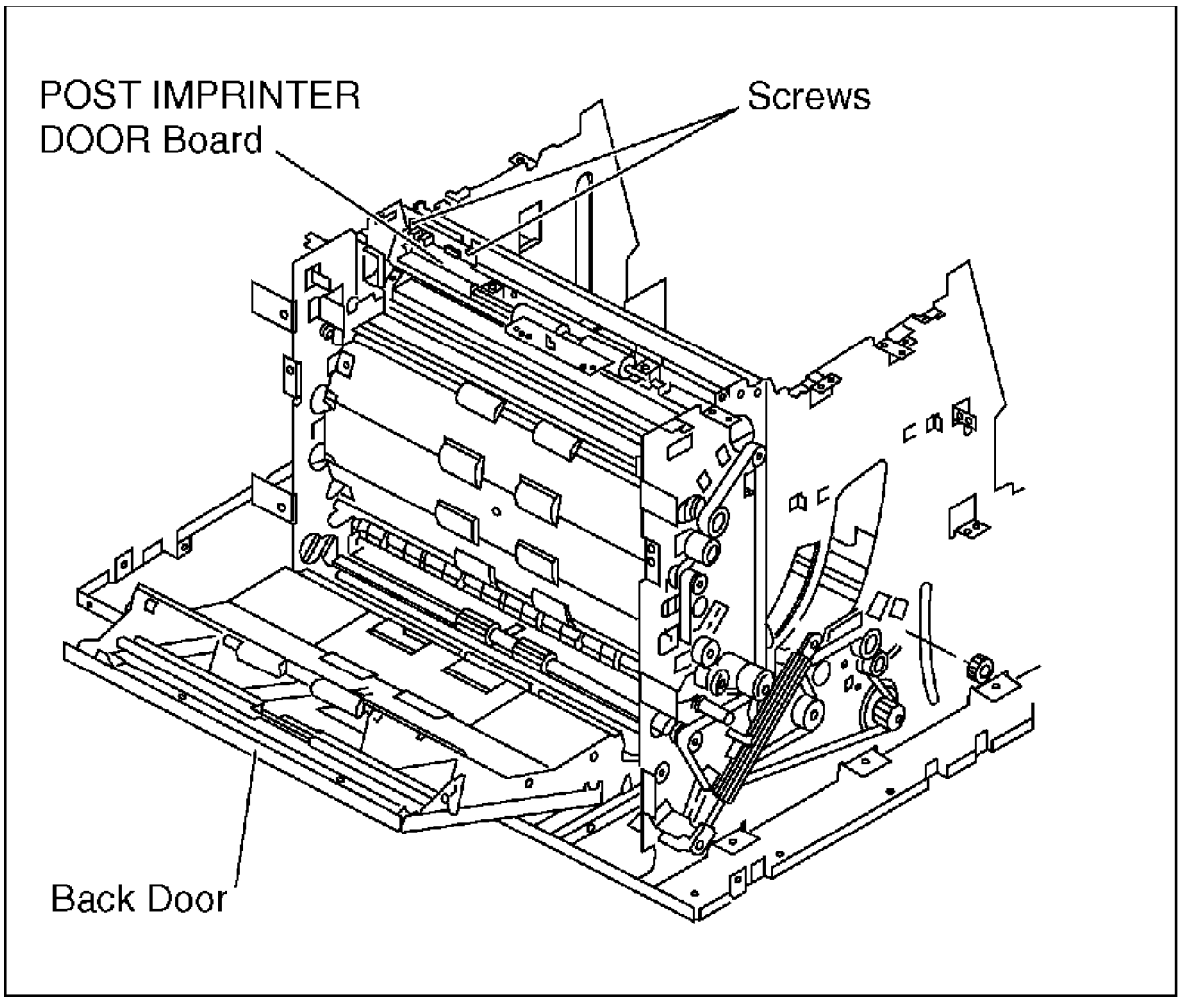
8.4.14. POST IMPRINTER DOOR Board

1. Remove the Post Imprinter Door. (See 8.2.8)

2. Open the Back Door.

3. Remove the 2 screws.

4. Disconnect the CN11.



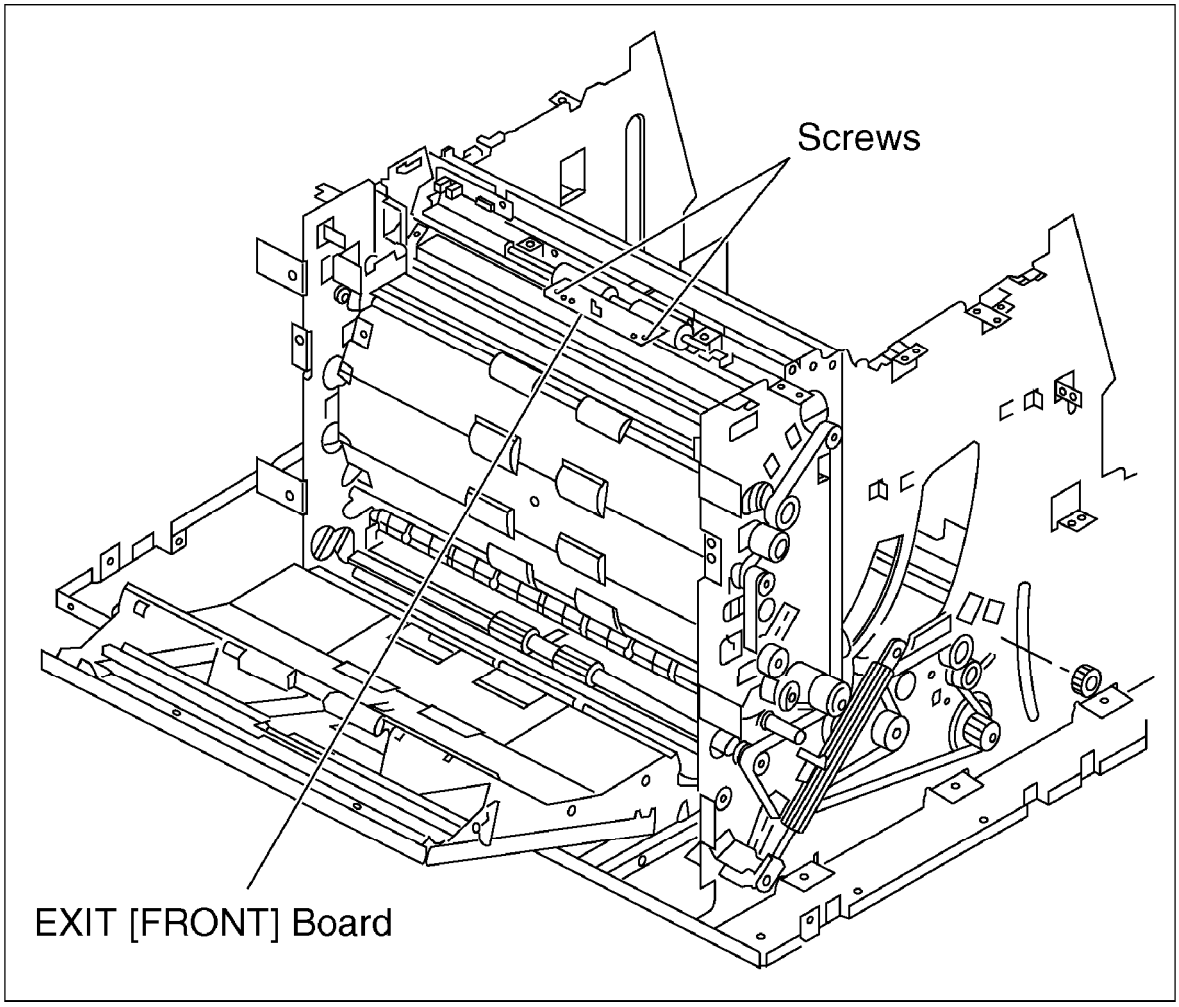
8.4.15. EXIT [FRONT] Board

1. Remove the Post Imprinter Door. (See 8.2.8)

2. Open the Back Door.

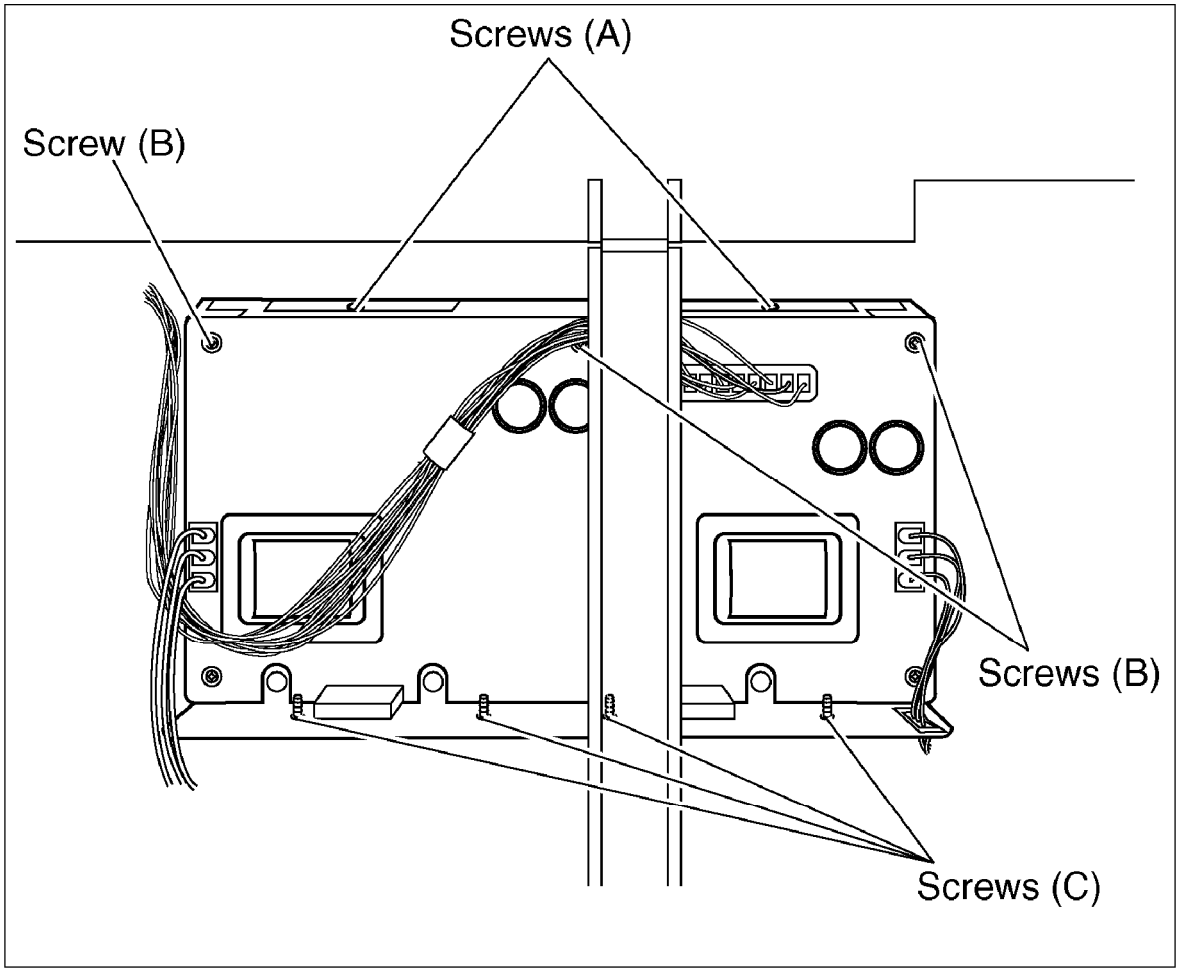
3. Remove the 2 screws.

4. Disconnect the CN10.



8.4.16. LAMP INVERTER Board

1. **Remove the Left Front Panel. (See 8.2.4)**
2. **Remove the 2 screws (A) and disconnect the all connectors from the LAMP INVERTER Board.**
3. **Remove the 3 screws (B) and 4 screws (C) on the LAMP INVERTER Board.**

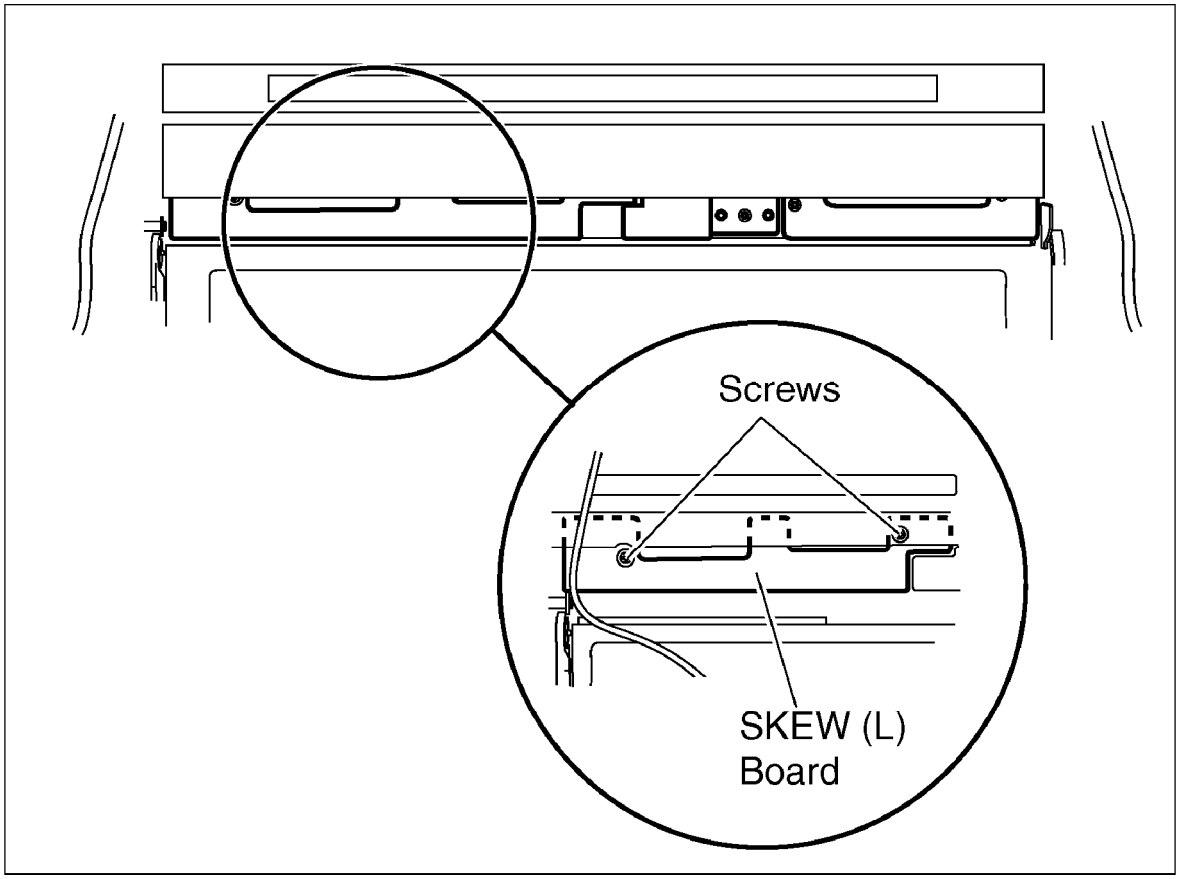


8.4.17. SKEW (L) Board

1. Remove the DOUBLE FEED DETECTOR [R] Board (See 8.4.13)

2. Remove the 2 screws.

3. Disconnect the CN33.

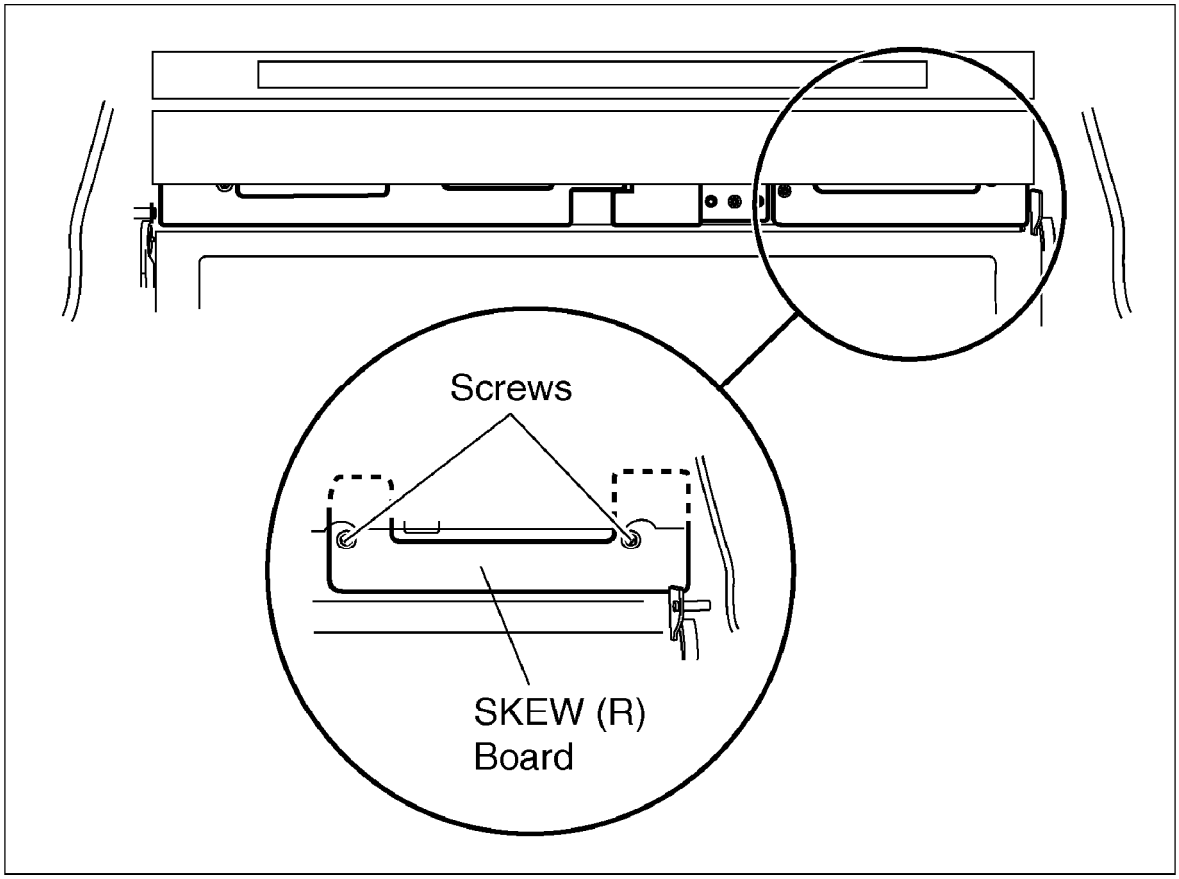


8.4.18. SKEW (R) Board

1. Remove the DOUBLE FEED DETECTOR [R] Board (See 8.4.13)

2. Remove the 2 screws.

3. Disconnect the CN19.

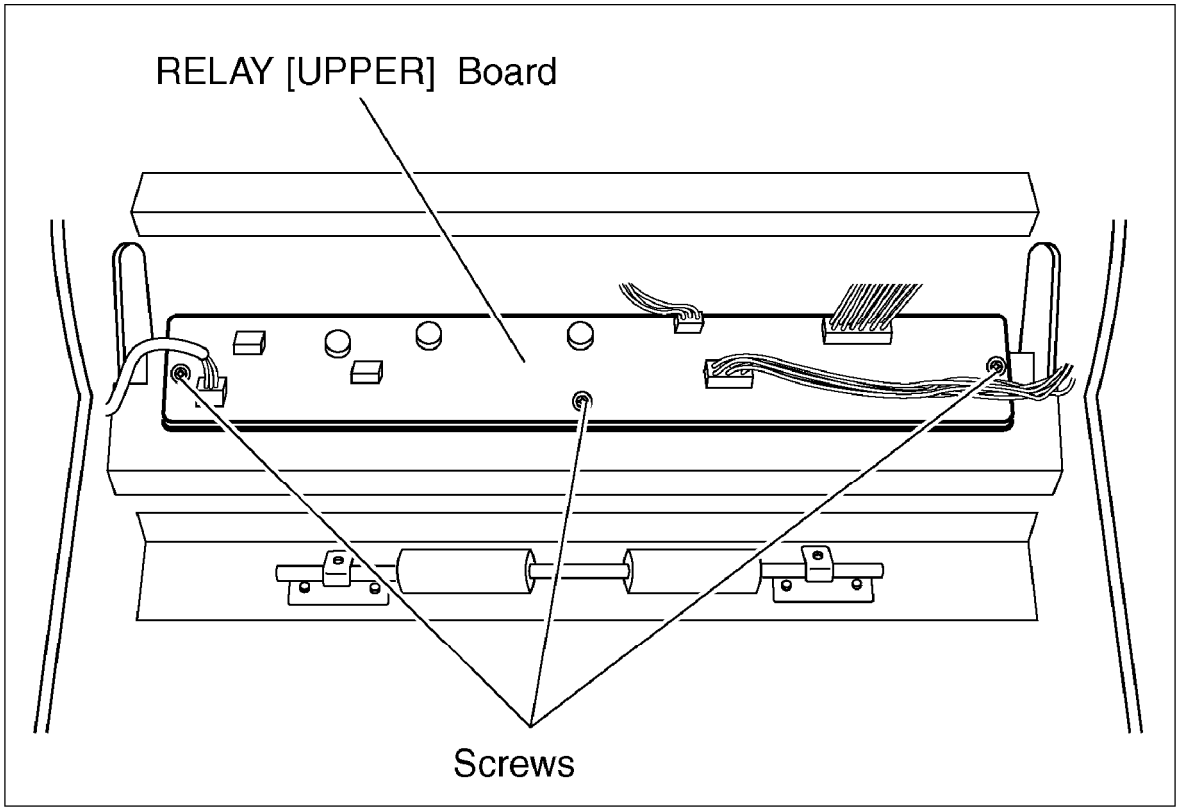


8.4.19. RELAY [UPPER] Board

1. Remove the DOUBLE FEED DETECTOR [R] Board (See 8.4.13)

2. Remove the 3 screws.

3. Disconnect all connectors on the RELAY [UPPER] Board.

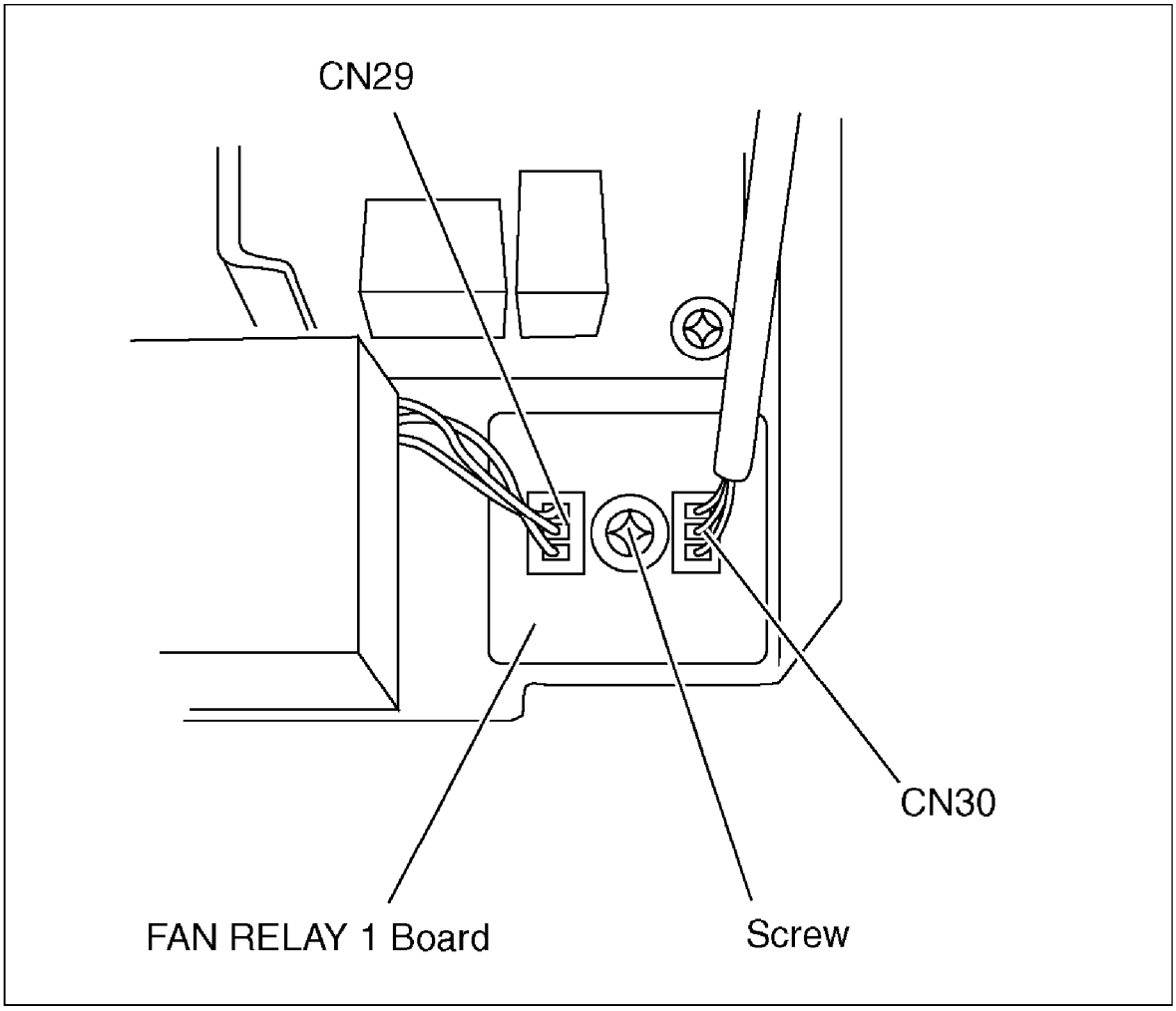


8.4.20. FAN RELAY 1 Board & FAN 1

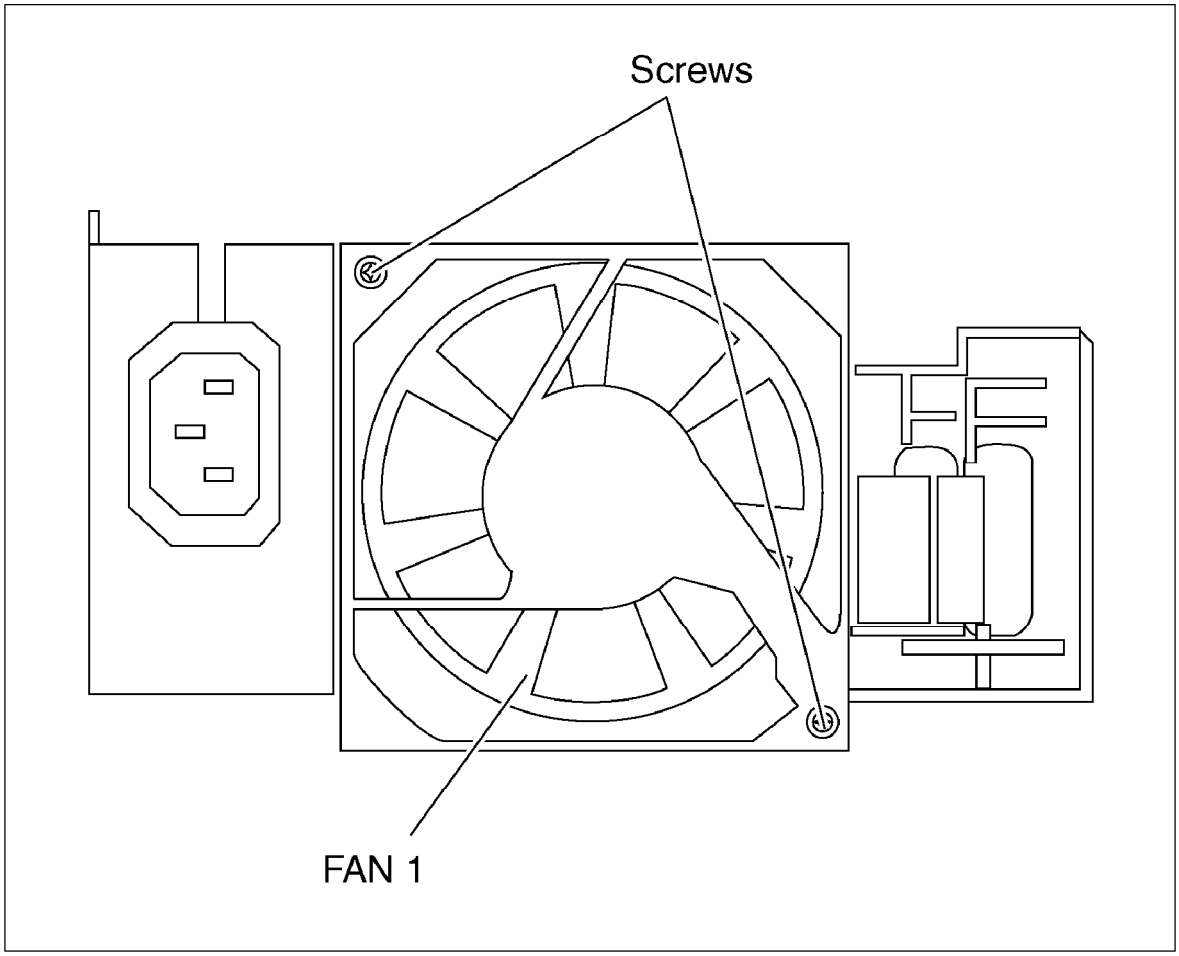
1. Remove the Power Unit. (See 8.3.4)

2. Disconnect CN29 and CN30 on the FAN RELAY 1 Board.

3. Remove the 1 screw on he FAN RELAY 1 Board.



4. Remove the 2 screws from FAN 1.



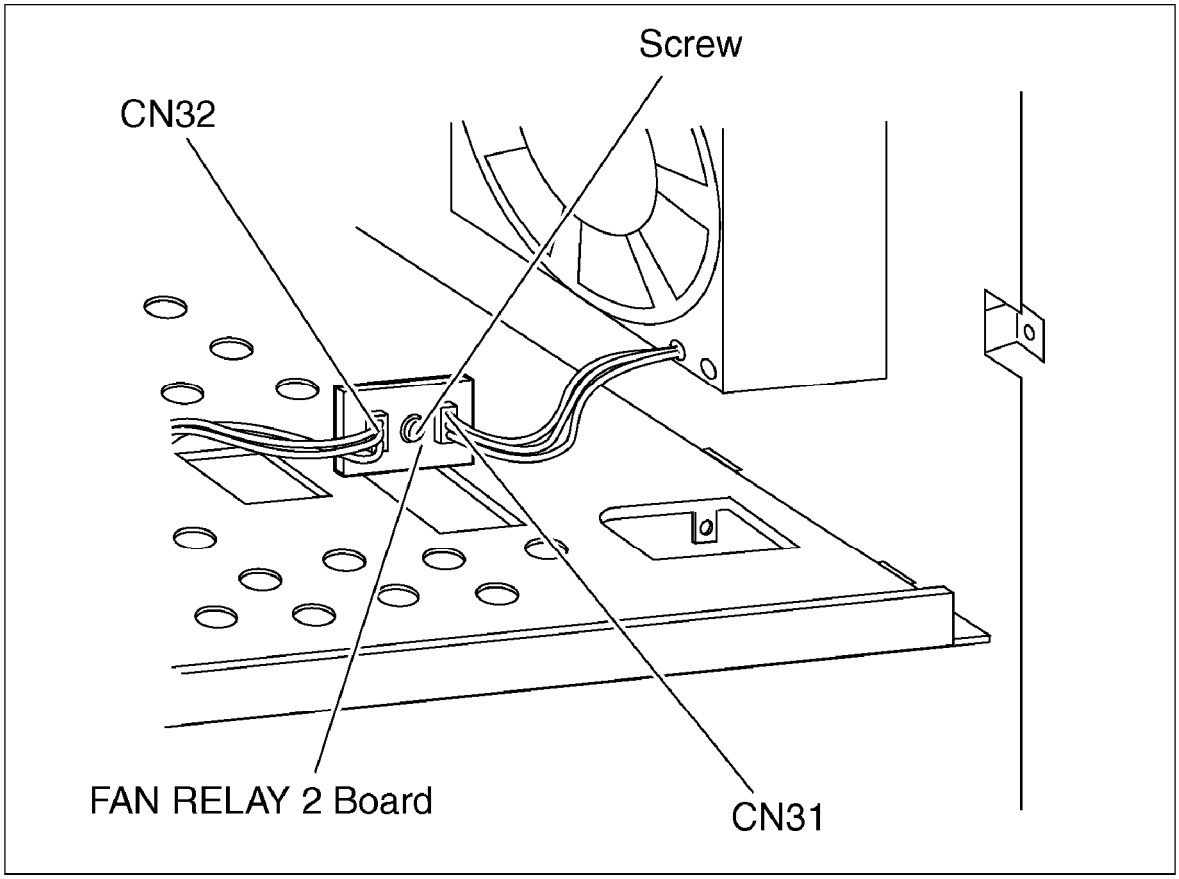
8.4.21. FAN RELAY 2 Board & FAN 2

1. Remove the Right Front Panel. (See 8.2.2)

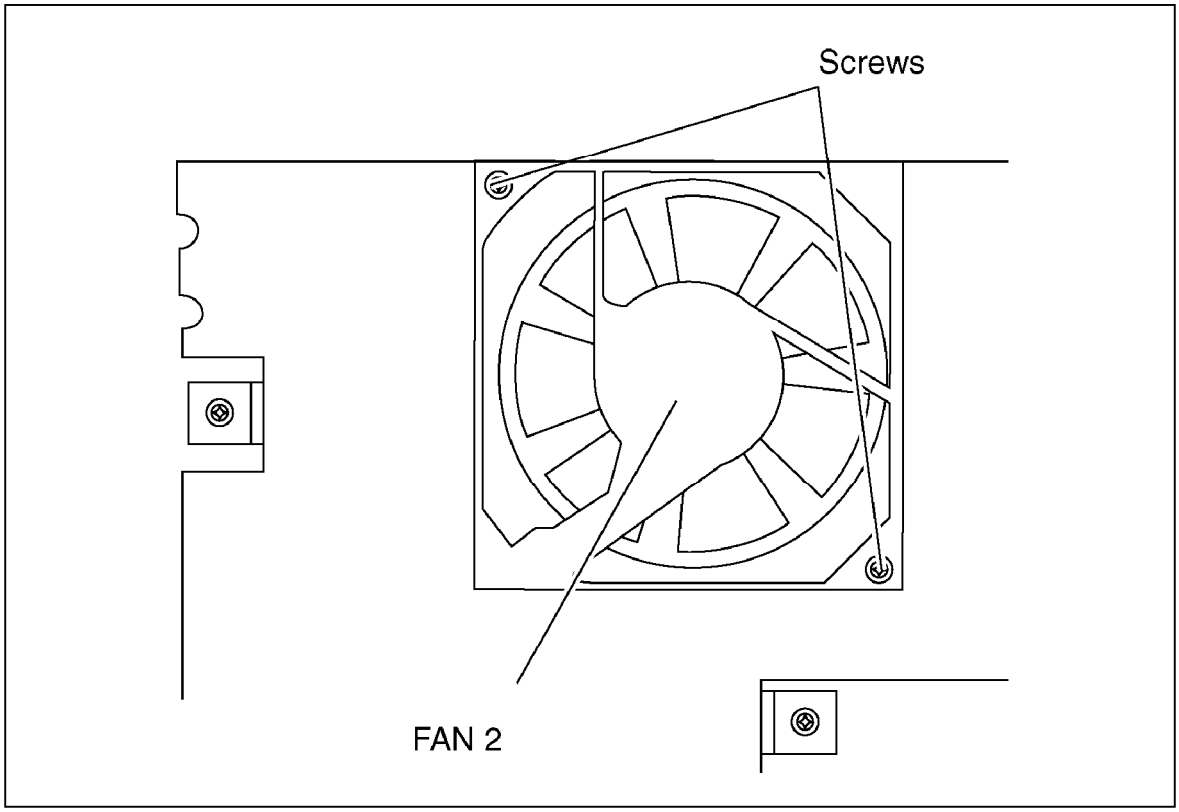
2. Remove the Board Box Cover. (See 8.4.2-(2))

3. Disconnect CN31 and CN32 on the FAN RELAY 2 Board.

4. Remove the 1 screw (A) and remove FAN RELAY 2 Board.

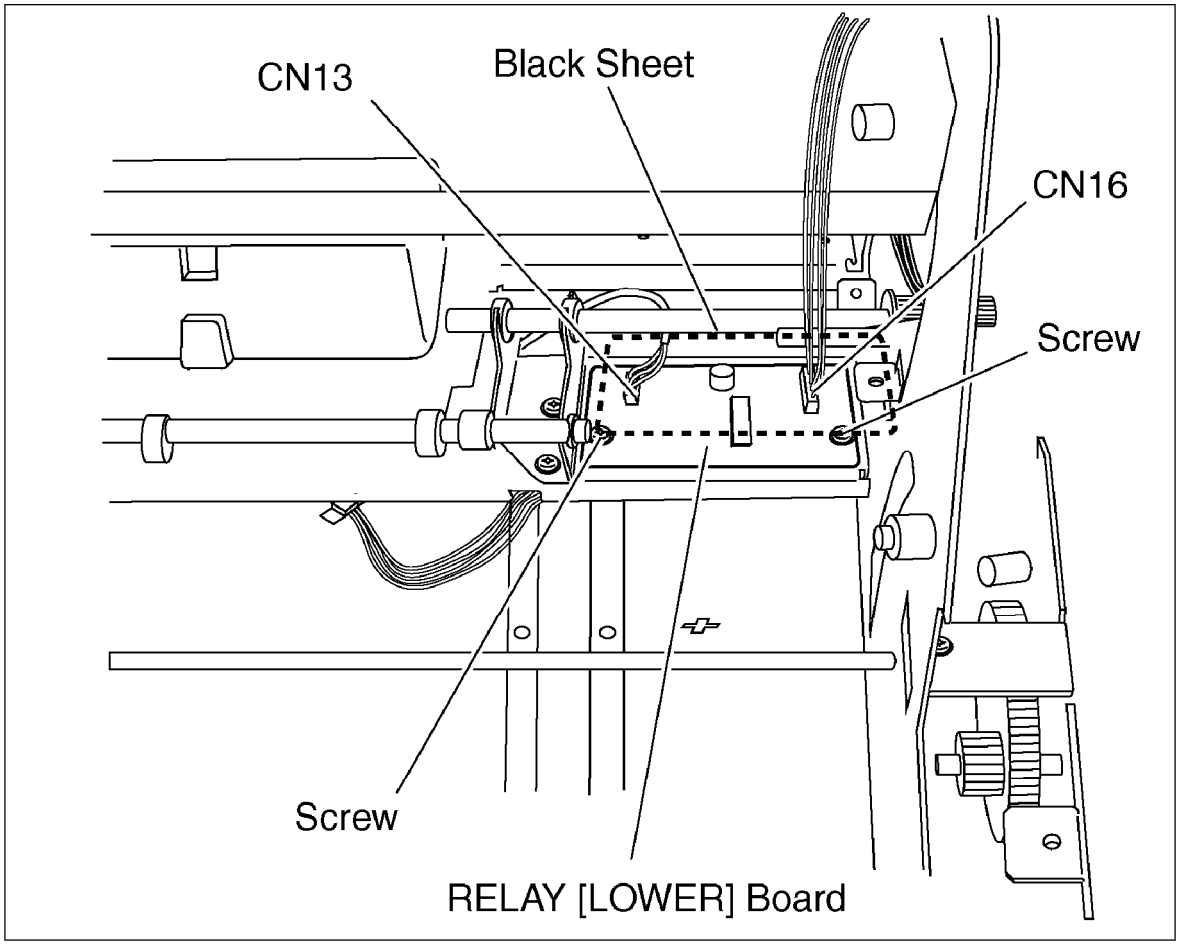


5. Remove the 2 screws (B) from FAN 2.



8.4.22. RELAY [LOWER] Board

1. **Remove the Conveyor Bottom (1). (See 8.3.16)**
2. **Remove the black sheet over the RELAY [LOWER] Board.**
3. **Disconnect CN13 and CN16 on the RELAY [LOWER] Board.**
4. **Remove the 2 screws on the RELAY [LOWER] Board.**

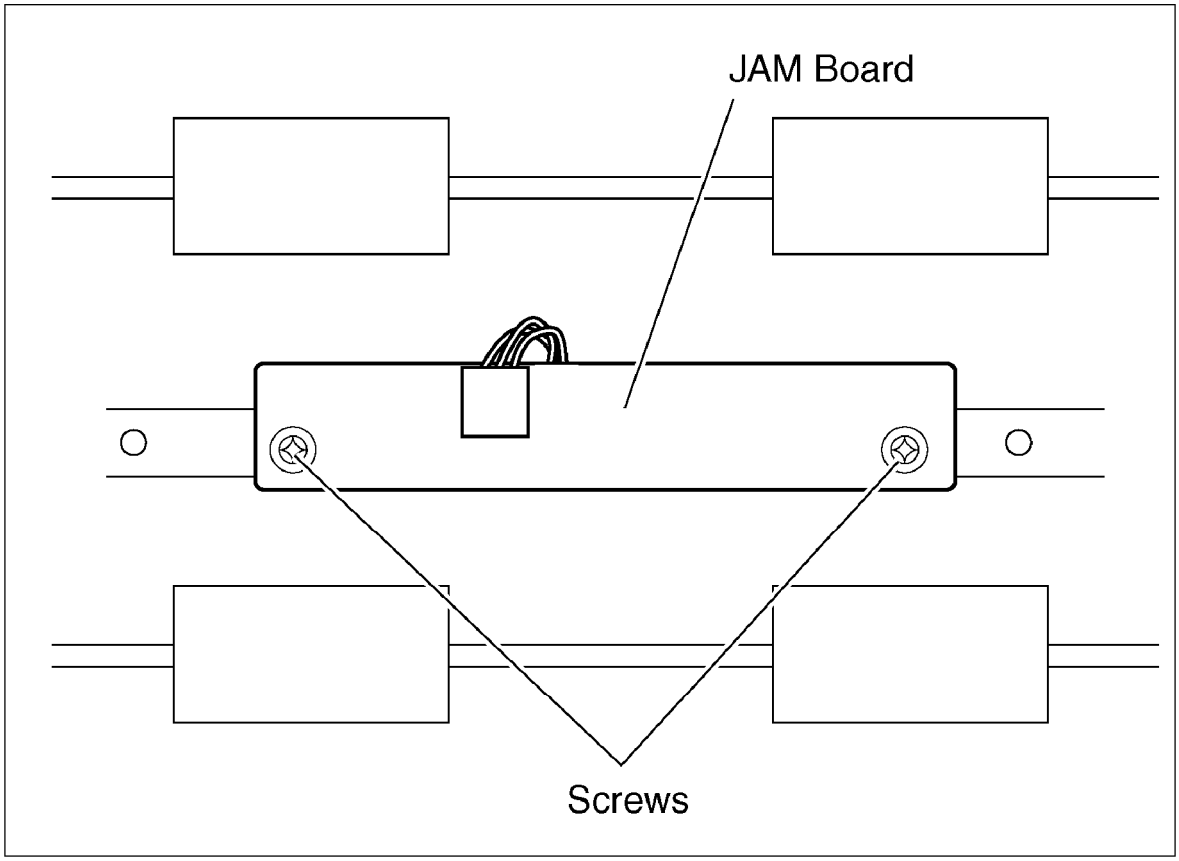


8.4.23. JAM Board

1. Remove the Conveyor Upper 6. (See 8.3.17)

2. Remove the 2 screws on the JAM Board.

3. Disconnect the CN20 on the JAM Board.

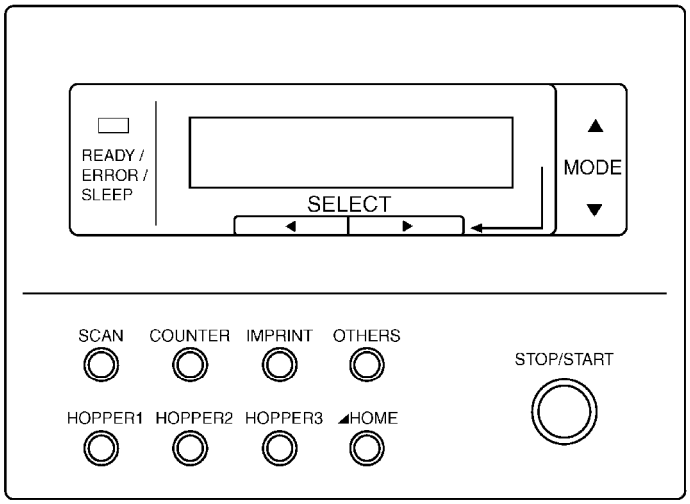


9. OPERATION

9.1. Front Panel Specifications

Item	Content
lication Device	LCD Display
lication Matrix	20 Characters × 2 lines
ıd of Character displayed	Alphabet, Number, Square Phonetic, Japanese Syllabary
licated Contents	System Status (Initializing, Ready, Scanning, Sleep, Error, Warnin Setting (Hopper position, Scanning, Counter, Imprinter, Others) Service Mode
licated Languages	English, German, Japanese
ıeration Key	SCAN, COUNTER, IMPRINT, OTHERS, HOPPER1, HOPPER2, HOPPER3, ◀, ▶, ▲, ▼, HOME, STOP/START Note Pushing each key for more than 0.5 sec enables Repea Mode

Display panel and keys



SCAN : Press to enter the scanning setting menu.

COUNTER : Press to enter the counter setting menu.

IMPRINT : Press to enter the imprinter setting menu.

OTHERS : Press to enter the other setting menu.

HOPPER1
HOPPER2 : Press to change the hopper position.
HOPPER3 Hopper capacity with 17lbs paper
Hopper1 : 1,000page setting
Hopper2 : 200page setting
Hopper3 : 1page setting

◢ HOME : Press to exit from the setting section and return to the ready status.
Also, this function can change the display language.

STOP / START : Used to start or stop scanning a document.

LCD : Up to 40 characters can be displayed during scanning or setting

▲ : Press to advance to the next mode in the selected menu.

▼ : Press to return to the previous mode in the selected menu.

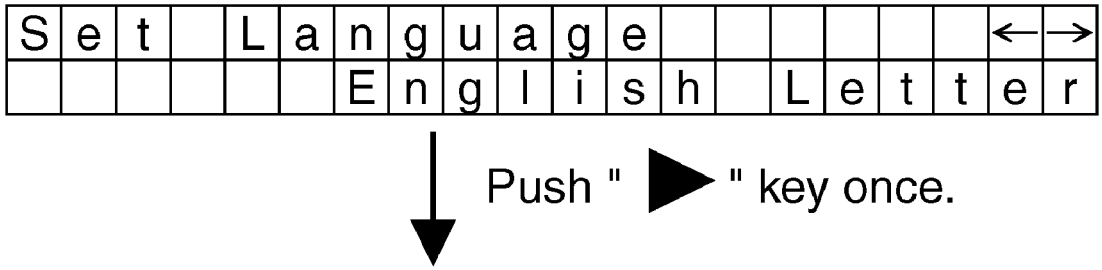
► : Press to advance to the next value in the selected mode.

◄ : Press to return to the previous value in the selected mode.

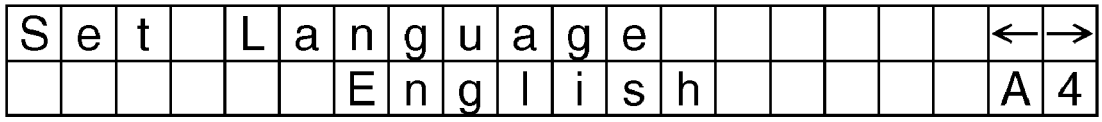
LED : Indicates the status of the scanner.
READY / ERROR / SLEEP
Green: Ready to scan or being scanning
Red: An error has occurred.
Green (flashing): Initializing
Orange (flashing): Sleeping

Note : Setting the language

1. Turn the power white pressing the HOME key.



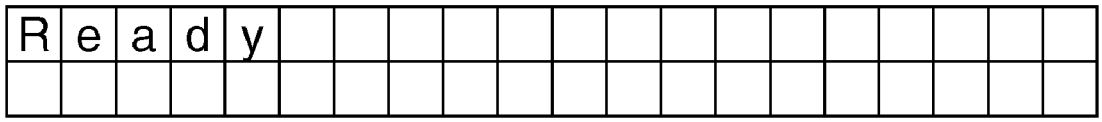
2. Use the [◀] key or [▶] key to select the “English Letter”, “English A4” or “Deutsch A4”, “ニホンゴA4“.



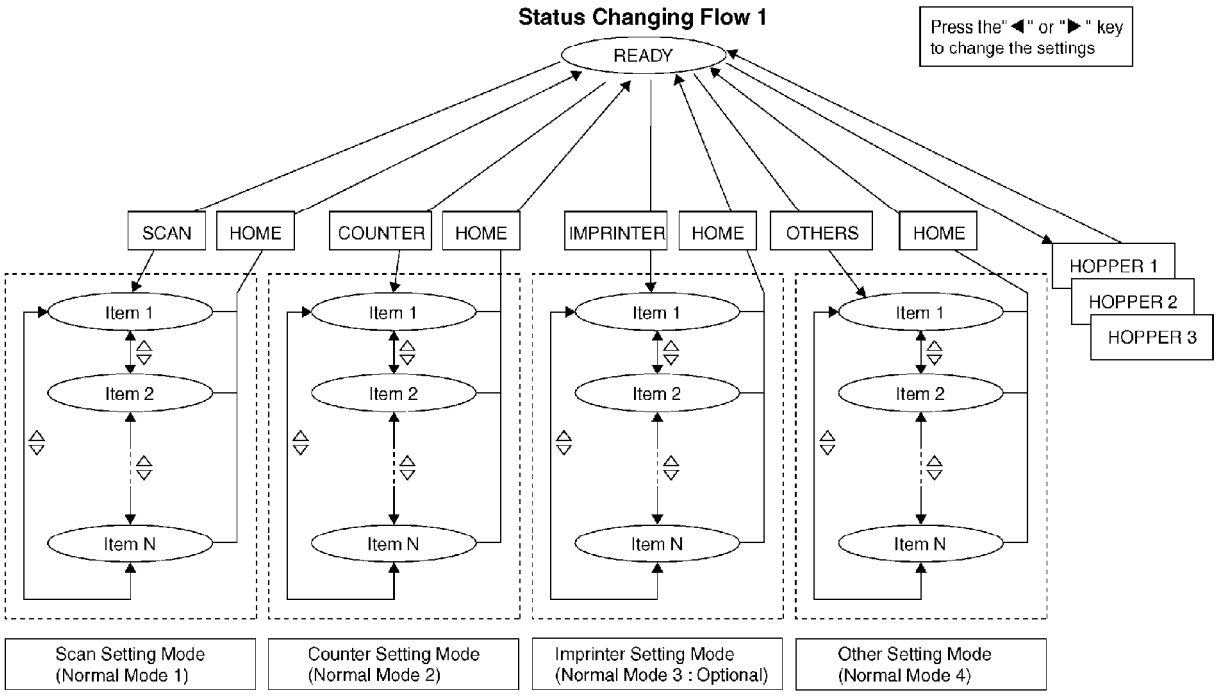
3. Press the HOME key.

- The display will change to the select language, then the scanner will be ready.

- This setting will remain until it is changed to another setting.



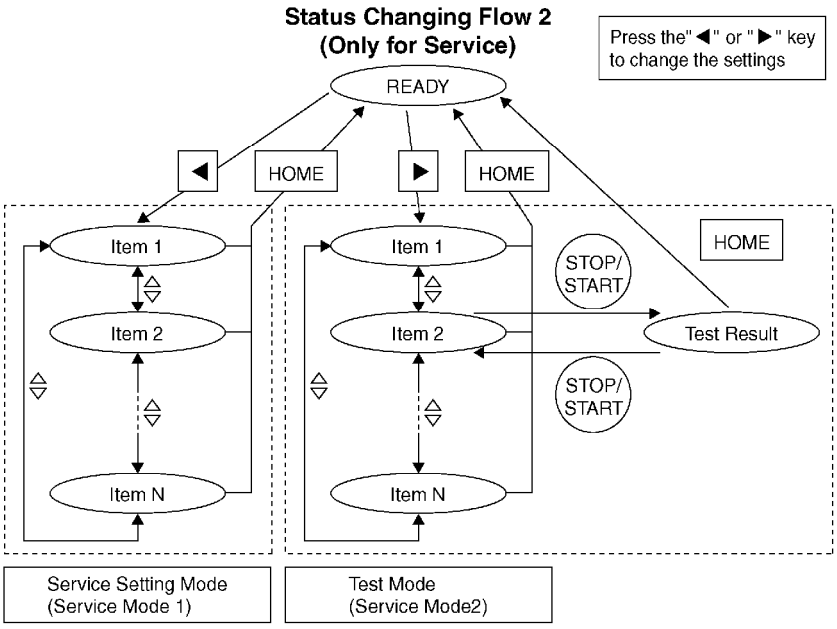
9.2. Operation-1 (Normal Mode)



By pressing another key, you can enter the other Setting Mode directly, without returning back the READY Mode. The Imprinter Setting Mode will operate only if the Imprinter (optional) has been installed in Scanner (KV-SS905C).

9.3. Operation-2 (Service Mode)

To enter Service Mode, turn on the Scanner while pressing the SCAN and the OTHERS keys simultaneously. Service Mode includes the Service Setting Mode and Test Mode. The Service Setting Mode offers functions that are not available in Normal Mode. The Service Setting Mode has “Set Warning value for timing if cleaning or replacing roller”, and so on. The Test Mode has a scanning test and shading and so on. The Service Mode can be available until the power is turned off.



9.4. Setting List

9.4.1. Scan Setting Mode (Normal Mode 1)

9.4.2. Counter Setting Mode (Normal Mode 2)

9.4.3. Imprinter Setting Mode (Normal Mode 3 : Optional)

9.4.4. Other Setting Mode (Normal Mode 4)

9.4.5. Service Setting Mode (Service Mode 1)

9.4.6. Test Mode (Service Mode 2)

9.5. Setting Operation (Normal Mode)

9.5.1. Scan Setting Mode (Normal Mode 1)

9.5.1.1. Mode - 1

9.5.1.2. Mode - 2

9.5.2. Counter Setting Mode (Normal Mode 2)

9.5.3. Imprinter Setting Mode (Normal Mode 3 : Option)

9.5.4. Other Setting Mode (Normal Mode 4)

9.5.4.1. Mode - 1

9.5.4.2. Mode - 2

9.6. Setting Operation (Service Mode)

9.6.1. Service Setting Mode (Service Mode 1)

9.6.1.1. Mode - 1

9.6.1.2. Mode - 2

Note
***Execute the Item (5) “Adjust value for Paper Length manually” before Items (6) “Adjust value for Front V. Position manually” and (12) “Adjust value for Back V.Position manually”.**
***Execute the Item (10) “Adjust value for Front Width manually” before Item (11)” Adjust value for Front H. Position manually” and (14) “Adjust value for Back H. Position manually”.**

9.6.1.3. Mode - 3

9.6.2. Test Mode (Service Mode 2)

9.6.2.1. Mode - 1

9.6.2.2. Mode - 2

9.6.2.3. Mode - 3

9.6.2.4. Mode - 4

9.6.2.5. Mode - 5

9.6.2.6. Mode - 6

9.6.2.7. Mode - 7

9.6.2.8. Mode - 8

9.6.3. Error Code

Error Code Outline

ST1	Error contents
0×	Communication error
1×	Paper jam error
2×	Door open error
3×	Mechanical function error
4×	Paper (Document) sensor error
5×	Scanning error
6×	-
7×	-
8×	Hardware error
9×	Hardware error
A×	Hardware error
B×	-
C×	-
D×	-
E×	-
F×	-

Error code outline

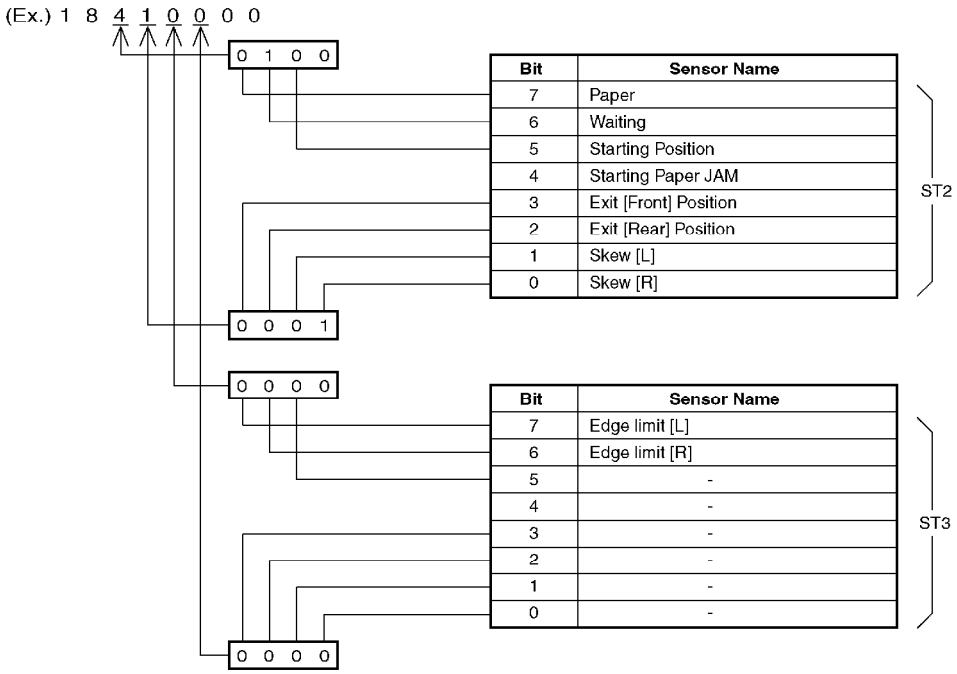
	Contents		Contents		Contents
U1×	Document	H1×		F1×	Hardware
U2×	Document	H2×		F2×	Hardware
U3×	Door	H3×		F3!×	Hardware
U4×	Other	H4×	Lamp	F4×	Mechanical issue
U5×		H5×		F5×	Sensor
U6×		H6×		F6×	Scanning
U7×		H7×		F7×	Sensor
U8×		H8×		F8×	
U9×		H9×		F9×	Hardware

ıssified Code	ST1	ST2	ST3	ST4	Contents
U10	10	00	00	00	No paper error
U11	11	×	00	00	Paper Feed Jam : ST2shows the rest numbers (approx.) of paper.
U12	12	×	00	00	Jam1 (around conveyor) : ST2 shows the rest numbers (approx.) of pa
U13	13	×	00	00	Jam2 (around conveyor) : ST2 shows the rest numbers (approx.) of paper.
U14	14	×	00	00	Jam3 (around conveyor) : ST2 shows the rest numbers (approx.) of pa
U15	15	×	00	00	Jam4 (around conveyor) : ST2 shows the rest numbers (approx.) of pa
U16	16	×	00	00	Jam1 (around Exit Roller) : ST2 shows the rest numbers (approx.) of paper.
U17	17	×	00	00	Jam2 (around Exit Roller) : ST2 shows the rest numbers (approx.) of paper.
U18	18	×	00	00	Paper remain in scanner *(ST2 : Paper position information)
U14	14	FF	×	×	Overrun error : ST2 shows the rest numbers (approx.) of paper.
U20	19	00	00	00	Skew error
U23	1C	×	×	00	Double feed error (ST2 : Sensor information) (ST3:0=Document at Waiting Sensor 1=No document at Waiting Sensor 2=Length 3=Supersonic frequency)
U30	20	00	00	00	Front door open
U31	21	00	00	00	Back door open
U32	22	00	00	00	Post imprinter door open
U33	23	00	00	00	Lamp door open
F40	30	00	00	00	Hopper drive (Lower) error
U41	58	00	00	00	Scanning position adjustment error
F42	32	00	00	00	Hopper drive (Upper) error
F50	40	00	00	00	Waiting sensor error
F51	41	00	00	00	Starting position sensor error
F52	42	00	00	00	Skew (R) sensor error
F53	43	00	00	00	Skew (L) sensor error
F54	44	00	00	00	Paper jam sensor error
F55	45	00	00	00	Ending (front) position sensor error
F56	46	00	00	00	Ending (rear) position sensor error
F57	48	00	00	00	Edge Limit (R) sensor error
F58	49	00	00	00	Edge Limit (L) sensor error

ıssified Code	ST1	ST2	ST3	ST4	Contents
F70	47	×	00	00	Size sensor error (ST2 : Information for exit tray guide's position)
F60	50	00	00	00	Front side gain error
F62	52	00	00	00	Back side gain error
H40	54	×	×	00	Front side lamp lighting error (ST2 : Lighting value ST3 : AD input leve
H41	55	×	×	00	Back side lamp lighting error (ST2 : Lighting value ST3 : AD input leve
F80	60	×	×	00	Double feed sensor error (ST2 : Output level ST3 : Input level)
F10	80	00	00	00	Program ROM (on MAIN Board) error
F11	81	×	×	×	Work RAM (on MAIN Board) error (ST2 : Data ST3,4 : Address)
F13	83	00	00	00	SCSI Program ROM (on I/F Board) error
F14	84	×	×	×	Work RAM (on I/F Board) error (ST2 : Data ST3,4 : Address)
F17	87	00	00	00	SO DIMM error
F18	88	00	00	00	DIMM error
F20	8A	×	×	×	Front side shading RAM error (ST2 : Data ST3,4 : Address)
F21	8B	×	×	×	Front side line RAM error (ST2 : Data ST3,4 : Address)
F22	8C	×	×	×	Front side color MTF RAM error (ST2 : Data ST3,4 : Address)
F28	92	×	×	×	Rotation RAM error (ST2 : Data ST3,4 : Address)
F32	96	×	×	×	SCSI buffer A error (ST2 : Data ST3,4 : Address)
F33	97	×	×	×	SCSI buffer B error (ST2 : Data ST3,4 : Address)
F34	98	00	00	00	EEPROM error
F35	99	00	00	00	GA-IF error
F36	9A	00	00	00	Front side GA-SEN error
F37	9B	00	00	00	GA-IMG error
F38	9C	00	00	00	Back side GA-SEN error
F90	AA	×	×	×	Back side shading RAM error (ST2 : Data ST3,4 : Address)
F91	AB	×	×	×	Back side line RAM error (ST2 : Data ST3,4 : Address)
F92	AC	×	×	×	Back side color MTF RAM error (ST2 : Data ST3,4 : Address)

Note

U18 Paper Position Information



In this case, the Waiting sensor and Skew [R] sensor detect the paper

10. TROUBLE SHOOTING

10.1. Warning

Warning message on LCD	Possible Cause	Check point
Warning Clean Roller	The rollers are dirty.	Clean the rollers.
Warning Replace Roller	The rollers need to be replaced.	Replace the paper feed rol module and retard roller module.

10.2. Error Code

Classified Code	Error Code	Possible Cause	Check point
L0 ɔ paper error	10 00 00 00	The document is not loaded on the hopper properly.	Load the document correctly.
		The sensor cannot detect the document as it is curled.	Straighten the document and loa again.
		Paper Detector does not work properly.	Execute Document Sensor according to 9.6.2.3 and check “ status.
L1 ıper feed jam	11 ×× 00 00	The document is jammed.	Open the front door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Waiting Sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " status.
L2 ım 1 (around ɔnveyor)	12 ×× 00 00	The document is jammed.	Open the front door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Starting Position Sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " status.
L3 ım 2 (around ɔnveyor)	13 ×× 00 00	The document is jammed.	Open the back door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Paper Jam Sensor or Pointer Detector does not work properly.	1. Paper Jam senor Execute Document Sensor according to 9.6.2 and check "J" status. 2. Pointer Detector Execute Door & Home Sensor according to 9 and check "P" status.
L4 ım 3 (around ɔnveyor)	14 ×× 00 00	The document is jammed.	Open the front door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Exit [Front] sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " status.
L5 ım 4 (around ɔnveyor)	15 ×× 00 00	The document is jammed.	Open the back door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Exit [Rear] sensor or Pointer Detector does not work properly.	1. Exit [Rear] sensor Execute Document Sensor according to 9.6.2 and check "e" status. 2. Pointer Detector Execute Door & Home Sensor according to 9 and check "P" status.

Classified Code	Error Code	Possible Cause	Check point
L6 ım 1 (around Exit ller)	16 ×× 00 00	The document is jammed.	Open the front door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Exit [Front] sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " status.
L7 ım 2 (around Exit ller)	17 ×× 00 00	The document is jammed.	Open the back door and remove jammed paper. Then clean all of rollers.
		The paper sensor is dirty.	Clean the paper sensor.
		Exit [Rear] sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " status.
L8 ıper remain in :anner	18 ×× 00 00	A document remains in the scanner.	Open the front and/or back door and remove all of the remaining documents.
		Dust adheres to the paper sensor.	Clean the paper sensor.
		Foreign matter is lodged around the paper sensor.	Remove the foreign matter.
		Exit [Front] sensor or Paper Jam sensor or Exit [Rear] sensor does not work properly.	Execute Document Sensor according to 9.6.2.3 and check " or "J" or "e" status.
23 ıuble feed error	1C ×× ×× 00	Multiple sheets were fed into the unit.	Open the front door and remove jammed paper.
		The rollers are dirty.	Clean all of the rollers.
		The rollers need to be replaced.	Replace the paper feed roller module or the retard roller modu
		Double Feed Detector does not work properly.	Execute "Adjust Double Feed Detector" in 9.6.2.5 with adjustm paper.
30 ont door open	20 00 00 00	The Front door is open.	Close the Front door.
		The Front Door switch was broken.	Execute "Door & Home Sensor" 9.6.2.3 to check "F" or "B" or "T' "L" status.
31 ıck door open	21 00 00 00	The Back door is open.	Close the Back door.
		The Back Door switch was broken.	Execute "Door & Home Sensor" 9.6.2.3 to check "F" or "B" or "T' "L" status.
32 ıst-imprinter OP) door	22 00 00 00	The post-imprinter door is open.	Close the post-imprinter door.
		The Post Imprinter Door sensor was broken.	Execute "Door & Home Sensor" 9.6.2.3 to check "F" or "B" or "T' "L" status.
33 ımp door open	23 00 00 00	The lamp door is open.	Close the lamp door.
		The Lamp Door switch was broken.	Execute "Door & Home Sensor" 9.6.2.3 to check "F" or "B" or "T' "L" status.

Classified Code	Error Code	Possible Cause	Check point
.0: ogram ROM n MAIN Board) ror	80 00 00 00	The result of check-sum for Program ROM (IC1060, IC1061) on MAIN Board is faulty.	1. Check the soldering condition for IC1053, IC1060, and IC1061 on MAIN Board 2. Replace Program ROM (IC1060, IC1061) or MAIN Board. 3. Replace MAIN Board.
.1: ork RAM n MAIN Board) ror	81 ×× ×× ××	Verify error for the Work RAM (IC1062, IC1063) on MAIN Board occurs.	1. Check the soldering condition for IC1053, IC1062, and IC1063 on MAIN Board. 2. Replace MAIN Board.
.3: CSI Program ROM n I/F Board) error	83 00 00 00	The result of check-sum for Program ROM (IC3022, IC3023) on I/F (SCSI) Board is faulty.	1. Check the soldering condition for IC3021, IC3022, and IC3023 on I/F (SCSI) Board. 2. Replace Program ROM (IC3022, IC3023) or (SCSI) Board. 3. Replace I/F (SCSI) Board.
.4: ork RAM n I/F Board) error	84 ×× ×× ××	Verify error for the Work RAM (IC3027, IC3028) on I/F (SCSI) Board occurs.	1. Check the soldering condition for IC3021, IC3027, and IC 3028 on I/F (SCSI) Board. 2. Replace I/F (SCSI) Board.
.7: D DIMM error	87 00 00 00	DRAM verify error on CN3003 occurs.	1. Check whether SO-DIMM module is attach correctly. 2. Check the soldering condition for IC3013, CN3003, and CN3004 on I/F (SCSI) Board. 3. Replace SO-DIMM on I/F (SCSI) Board. 4. Replace I/F (SCSI) Board.
.8: MM error	88 00 00 00	DIMM verify error on CN3004 occurs.	1. Check whether DIMM module is attached correctly. 2. Check whether DIMM module is in spec. fo scanner. 3. Check the soldering condition for IC3013, CN3003, and CN3004 on I/F (SCSI) Board 4. Replace DIMM module on I/F (SCSI) Board 5. Replace I/F (SCSI) Board.
0: ont side shading AM error	8A ×× ×× ××	Front side shading RAM's (IC 1014, IC1016, IC1018) verify error occurs on MAIN Board.	1. Check the soldering condition for IC1012, IC1014, IC1016, and IC1018 on MAIN Board 2. Replace MAIN Board.
1: ont Side line RAM ror	8B ×× ×× ××	Front side line RAM's (IC1024, IC1025, IC1026, IC1030, IC1032) verify error occurs on MAIN Board.	1. Check the soldering condition for IC1012, IC1024, IC 1025, IC1026, IC1030 and IC1032 o MAIN Board. 2. Replace MAIN Board.
2: ont side color TF RAM error	8C ×× ×× ××	Front side color MTF RAM's (IC1015, IC1017) verify error occurs on MAIN Board.	1. Check the soldering condition for IC1012, IC1015, and IC1017 on MAIN Board. 2. Replace MAIN Board.
2: CSI Buffer A error	96 ×× ×× ××	SCSI buffer-A's verify error occurs on I/F (SCSI) Board.	1. Check the soldering condition for IC3008, IC3009, and CN3010 on I/F (SCSI) Board. 2. Replace I/F (SCSI) Board.
3: CSI buffer B error	97 ×× ×× ××	SCSI buffer-B's verify error occurs on I/F (SCSI) Board.	1. Check the soldering condition for IC3008, CN3011, and CN3012 on I/F (SCSI) Board. 2. Replace I/F (SCSI) Board.
0: ack side shading AM error	AA ×× ×× ××	Back side shading RAM's (IC1019, IC1021, IC1023) verify error occurs on MAIN Board.	1. Check the soldering condition for IC1013, IC1019, IC1021, and IC1023 on MAIN Board. 2. Replace MAIN Board.
1: ack side line RAM ror	AB ×× ×× ××	Back side line RAM's (IC1027, IC1028, IC1029, IC1033, IC1035) verify error occurs on MAIN Board.	1. Check the soldering condition for IC1013, IC1027, IC1028, IC1029, IC1033 and IC1035 o MAIN Board. 2. Replace MAIN Board.

Classified Code	Error Code	Possible Cause	Check point
)2: ıck side color TF RAM error	AC ×× ×× ××	Back side color MTF RAM's (IC1020, IC1022) verify error occurs on MAIN Board	1. Check the soldering condition for IC1013, IC1020, and IC1022 on MAIN Board. 2. Replace MAIN Board.
34: EPROM error	98 00 00 00	The result of check-sum for EEPROM (IC1050) on MAIN Board is faulty.	1. Check the soldering condition for IC1012 a IC1050 on MAIN Board. 2. Replace MAIN Board.
35: A-IF error	99 00 00 00	GA-IF (Gate array: IC 3008) error occurs on I/F (SCSI) Board	1. Check the soldering condition for IC3008 c (SCSI) Board. 2. Replace I/F (SCSI) Board. 3. Replace MOTHER Board. 4. Replace MAIN Board.
36: ont Side GA-SEN ror	9A 00 00 00	Front side GA-SEN (Gate array: IC 1012) error occurs on MAIN Board	1. Check the soldering condition for IC1012 c MAIN Board. 2. Replace MAIN Board.
37: A_IMG error	9B 00 00 00	GA-IMG (Gate array : IC 3013) error occurs on I/F (SCSI) Board	1. Check the soldering condition for IC3013 c (SCSI) Board. 2. Replace I/F (SCSI) Board. 3. Replace MOTHER Board. 4. Replace MAIN Board.
38: ıck side GA-SEN ror	9C 00 00 00	Back side GA-SEN (Gate array : IC 1013) error occurs on MAIN Board	1. Check the soldering condition for IC1013 c MAIN Board. 2. Replace MAIN Board.
40:)pper drive ower) error	30 00 00 00	Hopper drive (Lower) error	1. To confirm hopper sensor operates proper Execute Door & Home Sensor Test in Test M 2. Is the hopper position shifted to the lower operating Hopper Test in Test mode? 3. Does hopper motor rotate? 4. Confirm each cable and connector conditi follows. A. Between Hopper motor and CN2013 on MOTHER Board B. Between CN2011 on MOTHER Board and on HOPPER [POSITION] Board C. Between CN4000 and CN2008 5. 1st pin on CN9 : More than 4.5V (DC)? 6. Replace faulty cables. 7. Replace HOPPER [POSITION] Board 8. Replace Hopper Motor. 9. Replace DRIVE Board. 10. Replace MOTHER Board.

Classified Code	Error Code	Possible Cause	Check point
32: opper drive pper) error	32 00 00 00	Hopper drive (Upper) error occurs.	1. To confirm hopper sensor operate properl Execute Door & Home Sensor Test in Test M 2. Is the hopper position shifted to the upper operating Hopper Test in Test mode? 3. Does hopper motor rotate? 4. Confirm each cable and connector conditi follows. A. Between Hopper motor and CN2013 on MOTHER Board B. Between CN2011 on MOTHER Board and on HOPPER [POSITION] Board C. Between CN7 on HOPPER [POSITION] B and CN5 on HOPPER [ANGLE] B D. Between CN4000 and CN2008 5. 4th pin on CN5: More than 4.5V (DC)? 6. Replace faulty cables. 7. Replace faulty cables. 8. Replace HOPPER [ANGLE] Board. 9. Replace Hopper [POSITION] Board. 10. Replace Hopper motor. 11. Replace DRIVE Board. 12. Replace MOTHER Board.
40: aiting sensor ror	40 00 00 00	Waiting sensor error occurs.	1. To confirm waiting sensor operates prope Execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN33 on SKEW [L] Board and C on RELAY [UPPER] Board. B. Between CN27 on RELAY [UPPER] Board CN2014 on MOTHER Board. C. Between CN1001 and CN2001. 4. 5th pin on CN33 : More than 4.5V (DC)? 5. Replace SKEW [L] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
41: arting position nsor error	41 00 00 00	Starting position sensor error occurs.	1. To confirm starting position sensor operat properly, execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN33 on SKEW [L] Board and C on RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] Board CN2014 on MOTHER Board C. Between CN1001 and CN2001 4. 5th pin on CN33 : More than 4.5V (DC)? 5. Replace SKEW [L] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.

Classified Code	Error Code	Possible Cause	Check point
;2: :ew (R) sensor ror	42 00 00 00	Skew (R) sensor error occurs.	1. To confirm skew (R) sensor operates prop execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN19 on SKEW [R] Board and C on RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] Boarc CN2014 on MOTHER Board C. Between CN1001 and CN2001 4. 3rdpin on CN19 : More than 4.5V (DC)? 5. Replace SKEW [R] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
;3: :ew (L) sensor ror	43 00 00 00	Skew (L) sensor error occurs.	1. To confirm skew (L) sensor operates prop execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN33 on SKEW [L] Board and C on RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] Boarc CN2014 on MOTHER Board C. Between CN1001 and CN2001 4. 5th pin on CN33 : More than 4.5V (DC)? 5. Replace SKEW [L] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
;4: :per jam sensor ror	44 00 00 00	Paper jam sensor error occurs	1. To confirm paper jam sensor operates pro execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN20 on JAM Board and CN24 (RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] Boarc CN2014 on MOTHER Board C. Between CN1001 and CN2001. 4. 1st pin on CN20 : More than 4.5V (DC)? 5. Replace JAM Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
;5: :it (Front) sensor ror	45 00 00 00	Exit (Front) sensor error occurs.	1. To confirm Exit (Front) sensor operates properly, execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN10 on EXIT [FRONT] Board a CN2012 on MOTHER Board B. Between CN1001 and CN2001 4. 1st pin on CN10 : More than 4.5V (DC)? 5. Replace EXIT [FRONT] Board. 6. Replace MOTHER Board. 7. Replace MAIN Board.

Classified Code	Error Code	Possible Cause	Check point
6: it (Rear) sensor ror	46 00 00 00	Exit (Rear) sensor error occurs.	1. To confirm Exit (Rear) sensor operates properly, execute Document Sensor Test in T Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between Exit (Rear) sensor and CN14 on POINTER Board B. Between CN15 on POINTER Board and CN2011 on MOTHER Board C. Between CN1001 and CN2001 4. 1st pin on CN14 : More than 4.5V (DC)? 5. Replace Exit (Rear) sensor. 6. Replace POINTER Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
7: lge limit [R] nsor	48 00 00 00	Edge limit [R] sensor error occurs.	1. To confirm edge limit [R] sensor operates properly, execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN19 on SKEW [R] Board and C on RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] and CN2014 on MOTHER Board C. Between CN1001 and CN2001. 4. 3rd pin on CN19 : More than 4.5V (DC)? 5. Replace SKEW [R] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.
8: lge limit [L] nsor	49 00 00 00	Edge limit [L] sensor error occurs.	1. To confirm edge limit [L] sensor operates properly, execute Document Sensor Test and Sensor Sensitive Level in Test Mode. 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN33 on SKEW [L] Board and C on RELAY [UPPER] Board B. Between CN27 on RELAY [UPPER] and CN2014 on MOTHER Board C. Between CN1001 and CN2001 4. 5thpin on CN33 : More than 4.5V (DC)? 5. Replace SKEW [L] Board. 6. Replace RELAY [UPPER] Board. 7. Replace MOTHER Board. 8. Replace MAIN Board.

Classified Code	Error Code	Possible Cause	Check point
50: ont side gain error	50 00 00 00	Front side gain error occurs.	1. Check front side lamp lights properly. 2. Check front side lamp is installed to front Lamp module properly. 3. Execute CCD Test in Test Mode. Amp value is changing during this test? 4. Confirm each cable and connector conditi follows. A. Between Front side lamp and CN2 on LA INVERTER Board B. Between CN1 on LAMP INVERTER Board CN2026 on MOTHER Board C. Between CN5101 on CCD Board [FRONT CN2005 on MOTHER Board D. Between CN5102 on CCD Board [FRONT CN2002 on MOTHER Board E. Between CN5103 on CCD Board [FRONT CN1002 on MAIN Board 5. Check input level (Test pin : TPFRO, TPFR TPFGO, TPFGE, TPFBO, TPFBE) 6. Replace faulty cables. 7. Replace front side lamp. 8. Replace front lamp module. 9. Replace LAMP INVERTER Board. 10. Replace Front Side Optical Unit. 11. Replace MAIN Board.
52: ack side gain	52 00 00 00	Back side gain error occurs.	1. Check back side lamp lights properly. 2. Check back side lamp is installed to back lamp module properly. 3. Execute CCD Test in Test Mode. Amp value is changing during this test? 4. Confirm each cable and connector conditi follows. A. Between back side lamp and CN3 on LAI INVERTER Board B. Between CN1 on LAMP INVERTER Board CN2026 on MOTHER Board C. Between CN5101 on CCD Board [BACK] CN2004 on MOTHER Board D. Between CN5102 on CCD Board [BACK] CN2002 on MOTHER Board E. Between CN5103 on CCD Board [BACK] CN1003 on MAIN Board 5. Check input level (Test pin : TPBRO, TPBR TPBGO, TPBGE, TPBBO, TPBBE). 6. Replace faulty cables. 7. Replace back side lamp. 8. Replace back lamp module. 9. Replace LAMP INVERTER Board. 10. Replace Back Side Optical Unit. 11. Replace MAIN Board.
70: ze sensor error	47 ×× 00 00	Size sensor error occurs.	1. To confirm size sensor operates properly, execute Document Sensor Test in Test Mode 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN3 on SIZE Board and CN6 on HOPPER [CONNECTOR] Board B. Between CN8 on HOPPER [CONNECTOR Board and CN2027 on MOTHER C. Between CN1001 and CN2001 4. Replace SIZE Board. 5. Replace HOPPER [CONNECTOR] Board. 6. Replace MOTHER Board. 7. Replace MAIN Board.

Classified Code	Error Code	Possible Cause	Check point
30: ouble feed sensor ror	60 ×× ×× 00	Double feed sensor error occurs.	1. To confirm double feed detector operates properly, execute Double Feed Test in Test M 2. Remove paper dust around the sensor. 3. Confirm each cable and connector conditi follows. A. Between CN12 on DOUBLE FEED DETEC [G] Board and CN13 on RELAY [B. Between CN16 on RELAY [LOWER] Boar CN2011 on MOTHER Board C. Between CN2014 on MOTHER Board and CN27 on RELAY [UPPER] Board D. Between CN26 on RELAY [UPPER] Boar CN21 on DOUBLE FEED DETECT 4. Adjust Double Feed Detector in Test Mode 5. Replace DOUBLE FEED DETECTOR (G) Bo 6. Replace RELAY [LOWER] Board. 7. Replace DOUBLE FEED DETECTOR (R) Bo 8. Replace RELAY [UPPER] Board. 9. Replace MOTHER Board. 10. Replace MAIN Board.
40: ont side lamp ghting error	54 ×× ×× 00	Front side lamp lighting error occurs.	1. Check front side lamp lights properly. 2. Check front side lamp is installed to front lamp module properly. 3. Confirm each cable and connector conditi follows. A. Between front side lamp and CN2 on LAI INVERTER Board B. Between CN1 on LAMP INVERTER Board CN2026 on MOTHER Board C. Between CN5101 on CCD Board [FRONT CN2005 on MOTHER Board D. Between CN5102 on CCD Board [FRONT CN2002 on MOTHER Board E. Between CN5103 on CCD Board [FRONT CN1002 on MAIN Board 4. Replace faulty cables. 5. Replace front side lamp. 6. Replace front lamp module. 7. Replace LAMP INVERTER Board. 8. Replace Front Side Optical Unit. 9. Replace MAIN Board.
41: ack side lamp ghting error	55 ×× ×× 00	Back side lamp lighting error occurs.	1. Check back side lamp lights properly. 2. Check back side lamp is installed to back lamp module properly. 3. Confirm each cable and connector conditi follows. A. Between back side lamp and CN3 on LAI INVERTER Board B. Between CN1 on LAMP INVERTER Board CN2026 on MOTHER Board C. Between CN5101 on CCD Board [BACK] CN2004 on MOTHER Board D. Between CN5102 on CCD Board [BACK] CN2002 on MOTHER Board E. Between CN5103 on CCD Board [BACK] CN1003 on MAIN Board 4. Replace faulty cables. 5. Replace back side lamp. 6. Replace back lamp module. 7. Replace LAMP INVERTER Board. 8. Replace Back Side Optical Unit. 9. Replace MAIN Board.

10.3. Requirement after parts replacement

Following adjustments are required when print circuit board or part is replaced.

Replaced print circuit board or part	Required adjustment
MAIN Control Board	Adjust Shading Adjust All Position & Length automatically Adjust Double Feed Detector Gain
Flash ROM (It isn't Service parts.)	Adjust Shading
Front Side CCD Unit or Front Side Lamp	Adjust Shading Adjust All Position & Length automatically or the following two Adjustments should be done. (1) Adjust Front H.Position automatically (2) Adjust Front V.Position automatically *When "Adjust All Position & Length automatically" is done, Length, B H.Position, and Back V. Position are adjusted again.
Back Side CCD Unit or Back Side Lamp	Adjust Shading Adjust All Position & Length automatically or 2 Adjustments should be done. (1) Adjust Back H.Position automatically (2) Adjust Back V.Position automatically *When "Adjust All Position & Length automatically" is done, Length, Fr H.Position, and Front V. Position are adjusted again.
Front & Back Side CCD Units or Front & Back Side Lamps	Adjust Shading Adjust All Position & Length automatically or 4 Adjustments should be done. (1) Adjust Front H.Position automatically (2) Adjust Front V.Position automatically (3) Adjust Back H.Position automatically (4) Adjust Back V.Position automatically *When "Adjust All Position & Length automatically" is done, Length is adjusted again.
VIEW [L] Board	Adjust All Position & Length automatically or 2 Adjustments should be done. (1) Adjust Front H.Position automatically (2) Adjust Back V.Position automatically
DOUBLE FEED DETECTOR [G] Board or DOUBLE FEED DETECTOR [R] Board	Adjust Double Feed Detector
Initialize EEPROM (It isn't Service parts.) *1	-Adjust All Position & Length automatically -Adjust Double Feed Detector

Replaced print circuit board or part	Required adjustment
Disassemble and assemble which influence to scanning positions.) Disassemble and assemble of b Chassis (R), (L), Main assis (R), (L)	Adjust All Position & Length automatically or 4 Adjustments should be done. (1) Adjust Front H.Position automatically (2) Adjust Front V.Position automatically (3) Adjust Back H.Position automatically (4) Adjust Back V.Position automatically *When “Adjust All Position & Length automatically” is done, Length is adjusted again.
ive Roller nveyor Roller	Adjust All Position & Length automatically or the following Adjustment should be done. (1) Adjust Length automatically

Note

*1 : Only perform "Init. EEPROM" when EEPROM Error (F34) occurs.
When "Init. EEPROM" is executed, all adjustments in Service Mode 1 and Service Mode 2 need to be confirmed.

11. BLOCK DIAGRAM

11.1. Function

Image processing circuit

The CCD is driven by the drive pulses put out from the GA-SEN pulse generation circuit. The image analog signals put out from the front CCD and the back CCD are converted by the AD converter (IC1003, IC1004, IC1005, IC1006, IC1009, IC1010) to digital signals for the R, G, and B components, and they are given as input to the image input processing gate array GA-SEN (IC1012, IC1013). As the R, G, and B sensors of the CCD are arranged staggered in subscanning direction, GA-SEN performs line deviation correction after shading correction and MTF correction have been performed, and then the signal is put out via the MOTHER Board as input to the image processing gate array GA-IMG (IC3013) on the I/F Board. The shading RAM, the MTF RAM, and the line correction RAM connected to GA-IMG store these processing calculation data temporarily. And GA-SEN has a built-in pulse generation circuit for chopping drive of the lamps, and the lamps are driven via a lamp driver (LAMP INVERTER). GA-IMG performs image processing like binary-coded processing, pseudo-gradation processing (dithering, error diffusion processing), color drop-out processing, etc. The

intermediate data during processing are stored temporarily in SDRAM. The data processed by GA-IMG are given as input to GA-IFC. In case of JPEG compression for color images or multi-level black-and-white images, input to GA-IFC is made via the JPEG compression IC (IC3007). GA-IFC controls the SCSI control IC (SCSI controller). The SRAM connected to GA-IFC is the image data page buffer. The data which have passed through GA-IFC are put out to the PC via the SCSI control IC and the SCSI connector.

11.2. Board

11.3. Explanation of Connector

Note
Signal names which begin with asterisk (*) indicates that the corresponding signal is LOW when active.

12. CIRCUIT BOARDS

12.1. MAIN Board

12.2. I/F Board (SCSI Board)

12.3. MOTHER Board

12.4. DRIVE Board

12.5. PANEL Board

12.6. SIZE Board

12.7. HOPPER [CONNECTOR] Board

12.8. HOPPER [POSITION] Board

12.9. HOPPER [ANGLE] Board

12.10. POINTER Board

12.11. RELAY [LOWER] Board

12.12. DOUBLE FEED DETECTOR [G] Board

12.13. POST IMPRINTER DOOR Board

12.14. EXIT [FRONT] Board

12.15. SKEW [L] Board

12.16. SKEW [R] Board

12.17. JAM Board

12.18. RETARD [POSITION] Board

12.19. DOUBLE FEED DETECTOR [R] Board

12.20. FAN RELAY 1 Board

12.21. FAN RELAY 2 Board

12.22. RELAY [UPPER] Board

13. SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURE'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THIS SCHEMATIC.

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13.4 DRIVE Board 169
13.5 PANEL, SENSOR Boards 170

13.1. MAIN Board

13.2. I/F Board (SCSI Board)

13.3. MOTHER Board

13.4. DRIVE Board

13.5. PANEL, SENSOR Boards

14. PARTS LOCATION AND MECHANICAL PARTS LIST

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)
The marking (RTL) in the Remark column indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Note: TSCA (Toxic Substance Control Act)
The marking (TSCA) in the Remark column indicates that the parts shown in the column consist of the substances which are included in TSCA inventory.

14.1. Exterior

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJKAB0004Z	Stacker Base	
2	PJDSB0115Z	Stacker Spring	
3	PJKAB0015Z	Oscillate Plate	
4	PBHRA0152Z	Oscillate Stopper	
5	PBHRA0163Z	Stacker Spring Support	
6	PJHEB0020Z	Oscillate Sheet1	(ISO Code: PE/PS)
7	PBKAA0029Y	Stacker Panel	
8	PBHRA0151Z	Oscillate Stopper	
9	PJKAB0002Z	Inner Panel(L)	
10	PJKAB0001Z	Inner Panel(R)	
11	PJMDB0082Z	Stacker Guide(L)	
12	PJMDB0083Z	Stacker Guide(R)	
13	PJHEB0018Z	Stacker Guide Sheet1	(ISO Code: PE)
14	PJHEB0019Z	Stacker Guide Sheet2	(ISO Code: PE)
15	PJKAB0003Z	Stacker Bottom Cover	
16	PJUPB06905AA	PANEL Board	(RTL)
17	PBHRA0169Z	Oscillate Sheet	
18	PBHRA0183Z-1	Paper Thick Knob	(ISO Code: ABS)
19	PBDEA0096Z	Top Cover Spacer	
20	PJHEB0028Z	Stacker Cover	(ISO Code: PC)
21	PJJRB0638Z	Panel Cable	
22	PBKAA0023Y	Top Cover	
23	PBKAA0024Y	Hopper Cover	
24	PJKAB0005Z	Front Panel(R)	
25	PJKAB0007Z	Front Panel(L)	
26	PJKAB0011Z	Side Panel(L)	
27	PJKAB0010Z	Side Panel(R)	
28	PBKAX0022Y	Numbering Cover	
29	PBKAX0025Y	Door Cover	
30	PJKAB0013Z	Rear Panel	
31	PJHEB0021Z	Oscillate Plate Sheet	(ISO Code: PE/PS)
32	PBBCA0010X	Hinge Button (A)	(ISO Code: ABS)
33	PBBCA0011X	Hinge Button (B)	(ISO Code: ABS)
34	PJGKB0001Z-J	Switch Panel	(ISO Code: ABS/PC)
35	PBQAA0921Z	Belt Stretch Label	
36	C-54-2	Magnet	
37	PJQTB0053Z	Lamp Exchange Label	
38	PJQTB0051Z	ADF Label	
39	PBQAA0652Y	AC IN Label	
40	PBQAA0653Y	Power Label	
41	PBQAA0654Y	I/F Label	
42	PBQAA0655Y	Pull Open Label	
43	PJQTB0047Z	Paper Feed Roller Label	
44	PJQTB0052Z	Pointer Label	
45	VJF0036	Rivet	
46	PBQAA0922Z	Roller Caution Label	
47	PBBCA0012Z-1	Hinge Button (C)	(ISO Code: ABS)
48	PBBCA0013X	Hinge Button (D)	(ISO Code: ABS)
49	PBBCA0014Z-1	Seesaw Button	(ISO Code: ABS)

Ref. No.	Part No.	Part Name & Description	Remarks
50	PJJRB0654Z	Speaker Cable	
51	K-103G	Clamp	
52	CE-016-L340	Edging	
53	PBQAA0898Z	Label	
54	PJQTB0048Z	Label	
315	XTW3+U10PFX	Screw	
321	XTW3+U6LFX	Screw	
323	XTW3+U6LFY	Screw	
325	XTW3+U6LFZ	Screw	
327	XTW3+U8LFX	Screw	

14.2. Chassis and Base 1

Ref. No.	Part No.	Part Name & Description	Remarks
1	A4JZC28C0002	Lamp	
2	PJMCB0023Z	Lamp Holder Up-A	
3	C-96-2	Roller Catch	
4	XSK10C6FXW	Screw	
5	PJDFB0038Z	Conveyor Bottom 3 Shaft	
6	PJUEB0005Z	Conveyor Up White	
7	PJUEB0007Z	Conveyor Bottom Black	
8	PJUEB0008Z	Conveyor Bottom 4	
9	PJMDB0063Z	Glass Plate	
10	PJHEB0008Z	Target Glass	
11	PBHRA0164Z	Sheet	
12	PJHEB0012Z	Conveyor Dust Cover Sheet	
13	PBULX0098Z	Tension Plate	
14	DR-19-H6	DS-Bearing	
15	RWPS6-100	Spacer	
16	RWPS6-025	Spacer	
17	PBDGA0048Z	Tension Pulley	
18	B-S6-168	Bearing	
19	PJULB0017Z	Tension Plate 4-A	
20	PBDGA0036Z	Pulley Gear	(ISO Code: POM)
21	23KM-K711-05	Feed Motor	
22	PBHE28Z	Damper	
23	PBDGA0049Z	Pulley	
24	PJUAB0020Z	Main Chassis L-A	
25	PJULB0009Z	Optical Unit Guide 2L	
26	PBDEA0198Z	Spacer	
27	PJDSB0050Z	Conveyor 3 Press Spring	
28	PBHDA0003Z	Screw	
29	PJUAB0022Z	Base-A	
30	C-30FRB-3220	Rubber Foot	
31	PBULA0088Z	Plate Reinforcement 2	
32	PJUPB06905AM	JAM Board	(RTL)
33	PBHDA0001Z	Screw	
34	PBUS8Z	Spring	

Ref. No.	Part No.	Part Name & Description	Remarks
35	YMC10-0	Clamper	
36	PBDS10Z40	Spring	
37	LWS-1S	Clamper	
38	PJJRB0628Z	Conver Motor Cable	
39	PJJRB0643Z	Jam Sensor Cable	
40	PBDG3Z	Cam	(ISO Code: POM)
41	PJDRX02S905C	Exit Roller Assembly	
42	PJDRX03S905C	Drive Roller 1 Assembly	
43	PJDRX05S905C	Drive Roller Assembly	
44	PJDRX04S905C	Drive Roller 2 Assembly	
45	B100S2M710	Conveyor Belt (2)	
46	B100S2M560	Conveyor Belt (1)	
47	PBUEA0072Z	Conveyor Up 5	
48	PJUEB0003Z	Conveyor Up 6	
49	PBHRA0117Z	Pointer	(ISO Code: PC)
50	PJDFB0036Z	Pointer Shaft	
51	PJMDB0062Z	Pointer Plate	
52	PJDJB0007Z	Bearing	(ISO Code: POM)
53	PJMDB0055Z	Pointer Lever	
54	PBBSA0002Z-1	Retard Cancellation Lever	(ISO Code: ABS)
55	PJUSB0029Z	Pointer Hold Spring	
56	PJDSB0049Z	Conveyor 3 Spring	
57	PBDJA0014Z	Spacer	
61	LWS-3S	Clamp	
62	PJMDB0046Z	Gas Spring Stay 1	
63	C-54-2	Magnet	
64	PBMDA0421Z	Numbering Plate L	
65	PBMDA0553Z	Plate	
66	PJMDB0048Z	Switch Cover	
67	AM51612C531	Interlock Switch	⚠
68	PJULB0003Z	Side Panel Stay 2	
69	PBDSA0106Z	Spring	
70	ASB-350-6	Spacer	
71	HIU-496A	Lamp Inverter Board	⚠(RTL)
72	PJMDB0049Z	LAMP Board Stay	
73	K-103G	Clamp	
74	EDS-3	Edge saddle	
75	LWS1SV0BK	Clamp	
76	PJULB0002Z	Side Panel Stay 1	
77	PJJRB0625Y	Lamp Driver Cable	
78	PJJRB0626Z	Lamp(F)Connect Cable	
79	PJJRB0627Z	Lamp(B)Connect Cable	
80	PBMDA0288Z	Front Panel plate	
81	PJHEB0038Z	Pointer Cover Sheet	(ISO Code: PC)
82	PJHEB0041Z	Platen Sheet	(ISO Code: PC)
83	PJMDB0184Z	Lamp Barrier Plate	
84	PJHEB0025Z	Lamp Reflector	(ISO Code: PC)
85	PJMCB0026Z	Lamp Cover L Up	
86	PJHEB0026Z	Lamp Spacer Up	
87	EDS-0607M	Edge Saddle	
88	PJMCB0027Z	Lamp Holder Bottom-A	
89	PJMCB0030Z	Lamp Cover L Bottom	
90	CS-2	Clip	

Ref. No.	Part No.	Part Name & Description	Remarks
298	XNA3FX	Cap Mut	
301	XPJ2C10VW	Pin	
306	XSN3+4FX	Screw	
308	XTN4+16FFX	Screw	
309	XTW3+U14LFX	Screw	
313	XTW3+8S	Screw	
321	XTW3+U6LFX	Screw	
327	XTW3+U8LFX	Screw	
335	XUC5FY	E-ring	
337	XUC6FY	E-ring	
339	XUC8FY	E-ring	
347	XXE3W2.5FT	Hex-hear Screw	
359	XYN4+J10FXS	Screw	

14.3. Chassis and Base 2

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJDFB0029Z	Retard Shaft	
2	PJDRB0028Z	Retard Roller	
3	RWPS6-025	Spacer	
4	PBHRA0133Z-J	Roller assemble	
5	PBDFA0065Z	Roller Shaft	
6	PJNW4111Z	Cut Spacer	
7	RWPS5-025	Spacer	
8	PJUEB0014Z	Conveyor Up 7-A	
9	PJUEB0016Z	Exit Conveyor A	
10	PBHRX0150Z	Ink Absorption Felt	
11	PBDSA0081Z	Spring	
12	PBMEA0010Z	Discharge Brush	
13	PJDJA0016Z	Pressure Roller Bear	(ISO Code: POM)
14	PJHEB0023Z	Reflect Sensor Sheet 2	(ISO Code: PC)
15	PJHRB0090Z	Retard Cover	(ISO Code: ABS)
16	PJHEB0011Z	Retard Cover Magnet	
17	PJHRB0091Z-J	Pad Flame Assemble	(ISO Code: ABS/SUS)
18	PJUEB0020Z	Conveyor Bottom 1-A	
19	PJHEB0022Z	Reflect Sensor Sheet 1	(ISO Code: PC)
20	PBDFA0066Z	Free Roller Shaft	
21	PBDGA0036Z	Pulley Gear	(ISO Code: POM)
22	B-S6-168	Bearing	
23	PJULB0014Z	Tension Plate 3-A	
24	PJUAB0018Z	Main Chassis R-A	
25	23KM-K711-05	Feed Motor	
26	PBHE28Z	Damper	
27	PBDGA0051Z	Pulley	
28	PJULB0008Z	Optical Unit Guide 2R	
29	PBDEA0198Z	Spacer	
30	PJDSB0050Z	Conveyor 3 Press Spring	
31	PBHDA0003Z	Screw	

Ref. No.	Part No.	Part Name & Description	Remarks
32	PJULB0006Z	Support 1-1	
33	PJULB0007Z	Support 1-2	
34	PBULA0089Z	Plate Reinforcement (3)	
35	PJMCB0040Z	Dust Cover Bottom-A	
36	TB-1116	Bushing	
37	TB-2533	Bushing	
38	EDS-17L	Edge saddle	
39	EDS-3	Edge saddle	
40	EDS-0607U	Edge Saddle	
41	PJUPB06905AF	POINTER Board	(RTL)
42	PBMDA0297Z	Sensor Plate	
43	PJUPB06905AH	POST IMPRINTER DOOR Board	(RTL)
44	PJULB0005Z	Sensor Plate	
45	GP2A25	Photo Reflector	
46	PJUPB06905AJ	RELAY [LOWER] Board	(RTL)
47	PBHDA0001Z	Screw	
48	PJUPB06905AP	RETARD [POSITION] Board	(RTL)
49	PJHEB0036Z	Retard Sensor Sheet	(ISO Code: PC)
50	WLS-03-0	Spacer	
51	YMC10-0	Clamper	
52	PJDSB0153Z	Tension Spring 2	
53	PJJRB0633Z	Hopper Cable	
54	PJJRB0634Z	Exit(R) Sensor Cable	
55	PJJRB0636Z	Numbering Door Cable	
56	PJJRB0639Z	Double Feed Send Cable	
57	PJMDB0056Z	Retard Support	
58	PJDFB0033Z	Retard Support Shaft	
59	B-F6-69	Metal	
60	PJMDB0071Z	Retard Plate	
61	PJMDB0058Z	Retard Press Plate	
62	PJDFB0032Z	Retard Drive Shaft	
63	F-FLW686ZZA	Bearing	
64	PJMDX06S905C	Planet Plate Sub Assembly	
65	PBDRA0031Z	Pitch Roller	(ISO Code: POM)
66	PBDGA0037Z	Idler Gear	(ISO Code: POM)
67	PBDGA0050Z	Drive Pulley	
68	B60S2M236	Belt	
69	PBDGA0038Z	Retard Gear	(ISO Code: POM)
70	PBDSA0106Z	Spring	
71	PJUPB06905AI	DOUBLE FEED DETECTOR [G] Board	(RTL)
72	PJMDB0060Z	Sensor Stay 1	
73	PJHEB0014Z	Sensor Sheet	(ISO Code: PC)
74	PJDSB0048Z	Counter Spring	
75	PBDGA0015Z	Hopper Cam	(ISO Code: POM)
76	PBDGA0056Z	Hopper Cam	(ISO Code: POM)
77	PJDFB0035Z	Retard Adjust Shaft	
78	PJNW525Z	Spacer	
79	PBHRA0023Z	Hopper Cam Shutter	(ISO Code: ABS)
80	PJDSB0047Z	Retard Spring	
81	PJUEB0018Z	Conveyor Bottom 5-A	
82	K-103G	Clamp	
83	PJUPB06905AG	EXIT [FRONT] Board	(RTL)
84	PJHEB0045Z	Exit Sensor Sheet	(ISO Code: PC)
85	PBULA0108Z	Door Switch Link	

Ref. No.	Part No.	Part Name & Description	Remarks
86	PBDSA0077Z	Door Switch Spring	
87	PJNW419Z	Spacer	
88	LWS-3S	Clamp	
89	PJUAB0009Z	Cover Side Plate L	
90	PJUAB0010Z	Cover Side Plate R	
91	PJMDB0053Z	Free Roller Plate L	
92	PJMDB0054Z	Free Roller Plate R	
93	PJUEB0009Z	Straight Conveyor	
94	PBDFA0064Z	Lock Lever Shaft	
95	PBDS17Z	Lock Lever Spring L	
96	PBDS16Z	Lock Lever Spring R	
97	PBUC29Y	Lock Lever L	
98	PBUC30Y	Lock Lever R	
99	PBUL30Z	Lock Release Plate	
100	PBDFA0067Z	Cover Shaft	
101	PBDSA0072Z	Cover Spring L	
102	PBDSA0073Z	Cover Spring R	
103	PJUAB0011Z	Cover Rear Plate	
104	PJDFB0034Z	Rear Free Roller Shaft	
105	PBDSA0071Z	Free Roller Support Spring	
106	PBHRA0181Z	Spacer	(ISO Code: POM)
107	PJUEB0001Z	Outer Conveyor	
108	PBDSA0074Z	Free Roller Spring	
109	PJHEB0037Z	Reflect Sensor Sheet 3	(ISO Code: PC)
110	PBFV4Z	Bearing	(ISO Code: POM)
111	PJMDB0046Z	Gas Spring Stay 1	
112	PJMCB0011Z	Lamp Cover R Bottom	
113	AM51612C531	Interlock Switch	⚠
114	PBMDA0422Z	Numbering Plate R	
115	K-105G	Clamp	
116	PJJRB0641Z	Imprinter Control Cable	
117	PJHEB0015Z	RELAY Board Sheet	(ISO Code: PC)
118	PJHEB0024Z	Retard Spring Sheet	(ISO Code: PC)
119	VJF0036	Rivet	
299	XPL2B12WVW	Pin	
301	XPJ2C10VW	Pin	
309	XTW3+U14LFX	Screw	
321	XTW3+U6LFX	Screw	
327	XTW3+U8LFX	Screw	
331	XUC3FY	E-ring	
335	XUC5FY	E-ring	
337	XUC6FY	E-ring	
339	XUC8FY	E-ring	
347	XXE3W2.5FT	Hex-hear Screw	
359	XYN4+J10FXS	Screw	
361	XTB3+6FFX	Screw	

14.4. Hopper Unit

Ref. No.	Part No.	Part Name & Description	Remarks
1	GP2A25	Photo Reflector	
2	PJUPB06905AB	SIZE Board	(RTL)
3	PJDFB0028Z	Hopper Shaft 1	
4	PBDFA0069Z	Hopper Shaft 2	
5	PBJEA0373Z	Cable	
6	PBMDA0573Z	Plate	
7	PJULB0011Z	Hopper Arm L-A	
8	PBDGA0046Z	Hopper Rack	(ISO Code: POM)
9	PJULB0013Z	Hopper Arm R-A	
10	PBDFA0070Z	Hopper Drive Shaft	
11	PBDGA0043Z	Hopper Gear(2)	(ISO Code: POM)
12	PBUAX0102Z	Hopper Chassis-L	
13	PBDGA0042Z	Hopper Gear	(ISO Code: POM)
14	PJUPB06905AE	HOPPER ANGLE Board	(RTL)
15	PBJEA0376Z	Cable	
16	PBULA0113Z	Sensor Plate	
17	17PMK103-G8V	Scanner Motor	
18	PJJRB0631Z	Cable	
19	MSP31-X60	Motor Mount	
20	PJMDB0068Z	Motor Chassis A	
21	PJUAB0012Z	Hopper Sub Chassis R-A	
22	PJUPB06905AD	HOPPER POSITION Board	(RTL)
23	PBHRA0134Z	Spacer	(ISO Code: POM)
24	PBDSA0075Z	Spring	
25	PBHRA0136Z	Spacer	(ISO Code: POM)
26	PBULX0112Z	Link Bar	
27	PJNW413Y	Spacer	
28	PJNW419Z	Spacer	
29	RWPS10-050	Spacer	
30	EDS-0607U	Edge Saddle	
31	YMC10-0	Clamper	
32	PBHRA0122Y	Paper Guide L	(ISO Code: ABS)
33	PBULA0115Z	Paper Guide Plate L	
34	PBHRA0123Y	Paper Guide R	(ISO Code: ABS)
35	PBULA0116Z	Paper Guide Plate R	
36	PBMDA0427Z	Paper Guide Stopper	
37	PBUSA0031Z	Stopper Spring	
38	PJMDB0185Z	Hopper Stay	
39	PBHRA0154Y	Stopper Cover	(ISO Code: ABS)
40	PBHAA0033Y	Hopper Plate	(ISO Code: ABS)
41	PBHEA0049Z	Hopper Pad	
42	PBQAA0678Y	Label	
43	PBDGA0044Z	Rack L	(ISO Code: POM)
44	PBDGA0045Z	Rack R	(ISO Code: POM)
45	PJDG50133Z	Pnion	(ISO Code: POM)
46	PBHRA0125Y	Extension Tray	(ISO Code: ABS)
47	PBULA0114Z	Extension Guide	
48	PJMDB0051Z	Lack Cover	
49	PBHEA0064Y	Stopper Pad	
50	PJQTB0046Z	Size Label	
51	PBULX0111Z	Hopper Arm 2	
52	PBHRA0135Z	Arm Spacer	(ISO Code: POM)
53	PBMDA0420Z	Slit Cover	

Ref. No.	Part No.	Part Name & Description	Remarks
54	PJNW822Z	Spacer	
55	PJUPB06905AC	HOPPER CONNECTOR Board	(RTL)
56	PJJRB0632Z	Cable	
57	PBFU3Z	Bearing	
58	PJJRB0629Z	Cable	
59	PBULA0088Z	Plate Reinforcement 2	
303	XPJ2C12VW	Pin	
304	XPJ3C30VW	Pin	
321	XTW3+U6LFX	Screw	
325	XTW3+U6LFZ	Screw	
327	XTW3+U8LFX	Screw	
328	XTW3+U8LFZ	Screw	
329	XTW3+U8PFX	Screw	
351	XYN3+J6FX	Screw	
331	XUC3FY	E-ring	
335	XUC5FY	E-ring	
337	XUC6FY	E-ring	

14.5. Paper Feed and Optical Units

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJMCX04S905C	Optical Unit	(ISO Code: ABS)
2	PJDFB0030Z	Separation Roller Shaft	
3	RWPS8-025	Spacer	
4	PJDFB0031Z	Feed Roller Shaft	
5	PJDRB0056Z	Feed Roller	
6	RWPS6-025	Spacer	
7	PJMDB0064Z	Paper Feed Holder-A	
8	B-S6-168	Bearing	
9	PBDGA0037Z	Idler Gear	(ISO Code: POM)
10	F-FLAW678AZZ	Bearing	
11	PBDGA0013Z	Paper Feed Gear	
12	B-F6-69	Metal	
13	PBDGA0055Z	Separation Drive Gear	(ISO Code: POM)
14	PJHRB0089Z	Feed Roller Cover	(ISO Code: ABS)
15	PBHRA0119Y	Feed Roller Lever	(ISO Code: POM)
16	F-FLW686ZZA	Bearing	
17	PBDGA0038Z	Retard Gear	(ISO Code: POM)
18	PBDFA0054Z	Switching Shaft	
19	PBUL30Z	Lock Release Plate	
20	PJULB0010Z	Support 5	
21	PBHRA0126Z	Guide Holder	(ISO Code: POM)
22	PJMCB0038Z	Dust Cover Up-A	
23	PJUAB0014Z	Sub Chassis R-A	
24	PJUAB0016Z	Sub Chassis L-A	
25	PBDSA0064Z	Lever Spring R	
26	PBDSA0065Z	Lever Spring L	
27	PBHMA0107Z	Lever R	

Ref. No.	Part No.	Part Name & Description	Remarks
28	PBHMA0108Z	Lever L	
29	PJMDB0052Z	Skew Sensor Stay	
30	PJULB0004Z	Support 4	
31	PJUPB06905AK	SKEW [L] Board	(RTL)
32	PJUPB06905AL	SKEW [R] Board	(RTL)
33	PJUPB06905AN	DOUBLE FEED DETECTOR [R] Board	(RTL)
34	PJUPB06905A0	RELAY [UPPER] Board	(RTL)
35	PJMDB0061Z	Sensor Stay 2	
36	CK-10H	Clamp	
37	K-103G	Clamp	
38	YMC10-0	Clamper	
39	PJJRB0642Z	STBY Sensor Cable	
40	PJJRB0646Z	Double Feed Receive Cable	
41	PJDFB0048Z	Sub Chassis Shaft	
42	PJMDB0047Z	Gas Spring Stay 2	
43	Y0005	Gas Damper	
44	PBHMA0106Z	Spacer	
45	PJMCB0010Z	Lamp Cover R Up	
46	PJUEX07S905C	Conveyor Up 4 Arm Assembly	
47	PJDFB0037Z	Conveyor Up 3 Shaft	
48	PJUEB0005Z	Conveyor Up White	
49	PJUEB0006Z	Conveyor Up 3B	
50	PBHRA0133Z-J	Roller assemble	
51	PJNW4111Z	Cut Spacer	
52	RWPS5-025	Spacer	
53	PBDSA0066Z	Feed Roller Spring	
54	PJDJA0016Z	Pressure Roller Bear	(ISO Code: POM)
55	PJDSB0117Z	Free Roller Spring	
56	PJUEX03S905C	Conveyor Up 1 Assembly	
57	PJDSB0049Z	Conveyor 3 Spring	
58	PBDJA0014Z	Spacer	
59	PBDGA0071Z	Pitch Roller	(ISO Code: POM)
60	PJMDB0066Z	Hopper Sensor Arm-A	
61	PJJRB0647Z	Double Feed Receive Connect Cable	
62	PJJRB0618Y	CCD(F) Digital Cable	
63	PJJRB0619Z	CCD(F) Power Cable	
64	PJJRB0620Z	CCD(F) Analog Cable	
65	PJJRB0621Y	CCD(B) Digital Cable	
66	PJJRB0623Z	CCD(B) Analog Cable	
67	C-96-2	Roller Catch	
68	PJDRB0029Z	Separation Roller	
69	PJHEB0041Z	Platen Sheet	(ISO Code: PC)
70	AL5	Clamper	
71	PJDRX06S905C	FR Free Roller	
72	PJHEB0044Z	Free Roller Hold Sheet	
73	PJHEB0047Z	Dust Cover Sheet 4	
299	XPL2B12WVW	Pin	
301	XPJ2C10VW	Pin	
306	XSN3+4FX	Screw	
317	XTB4+10FFY	Screw	
321	XTW3+U6LFX	Screw	
335	XUC5FY	E-ring	
337	XUC6FY	E-ring	
339	XUC8FY	E-ring	

Ref. No.	Part No.	Part Name & Description	Remarks
343	XWG6	Washer	
361	XTB3+6FFX	Screw	

14.6. Power Unit and Circuit Boards

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJMCB0031Z	POWER Board Plate-A	
2	N0AE5GK00001	POWER Board	⚠(RTL)
3	PJHEB0002Z	Power Sheet	(ISO Code: PPE)
4	L6FALEGK0006	Fan	
5	SJ-W2F4A03BB	Power Switch	⚠
6	PJUPB06905AQ	FAN RELAY 1 Board	(RTL)
7	YMC10-0	Clamper	
8	LWS1SV0BK	Clamp	
9	NF-0405-V0	Wire Clip	
10	PJJRB0651Z	Main Power Cable 2	
11	PJJRB0652Z	AC Power Cable 2	
12	PJJRB0653Z	Inlet Cable	⚠
13	PJJRB0661Z	FAN Relay Cable 1	
14	PJMCB0014Z	Board Box Plate	
15	PJUPB06905AR	FAN RELAY 2 Board	(RTL)
16	GR-280S	Rail	
17	LWS-3S	Clamp	
18	KG-010-L90	Bush-L090	
19	PJMCB0013Z	Power Box	
20	PJMCB0034Z	Board Box-A	
21	PJMDB0010Z	DRIVE Board Fitting Plate	
22	KGPS-6RF	Spacer	
23	PJUPB03S905A	I/F Board	(RTL)
24	PJMCB0016Z	I/F Board Stay	
25	A-46-5	Handle	
26	PJUPB02S905A	MOTHER Board	(RTL)
27	PJUPB05S905A	DRIVE Board	(RTL)
28	PJJRB0658Z	FAN Relay Cable 2	
29	PJUPB01S905A	MAIN CONTROL Board	(RTL)
30	PBMDA0305Z	Join Plate	
31	PJQTB0060Z	Label	
32	PJMCB0017Z	Board Box Cover	
33	AL5	Clamper	
34	TMM6463	Clamper	
297	PCSXE50SJ6U2	Screw	
311	XTW3+U30LFX	Screw	
312	XSB26+4FX	Screw	
321	XTW3+U6LFX	Screw	
323	XTW3+U6LFY	Screw	
357	XYN4+F8FXS	Screw	

14.7. Packing

Ref. No.	Part No.	Part Name & Description	Remarks
1	PJPGB0028Z	Outer Carton	
2	PJPGB0029Z	Bottom Carton	
3	PJPQB0006Z	Cushion of Bottom R	(ISO Code: PP)
4	PJPQB0007Z	Cushion of Bottom L	(ISO Code: PP)
5	PBPQA0096X	Cushion of Upper	(ISO Code: PP)
6	PBPNA0151Y	Fix Carton	
7	PJPNB0038Z	Guide Pad	
8	ZVC0XJ711MU0	Cover for Fix Carton	(ISO Code: PE)
9	PJPPB0003Z	Protection Bag	(ISO Code: PE)
10	PJPNB0063Z	Attached Parts Box	
11	PBHRA0127Y-J	Exit Tray	(ISO Code: ABS)
12	PBPE6Z	Cushion Bag for Exit Tray	(ISO Code: PE)
13	PJQXB0010Z	Maintenance Manual	
14	PJQXB0009Z	Installation Manual	
15	PJIUA0001Z	Blower	
16	K2CG3DH00032	Power Cord (120V) for Type A-2	⚠
17	K2CN3DH00003	Power Cord (240V) for Type C-4	⚠
18	K2CT3DH00012	Power Cord (240V) for Type BF	⚠
19	PBMDA0426Z-J	Exit Tray Guide	
20	PBQX70020Z	Warranty Card	
21	HP-601W2	Joint	(ISO Code: PP)
22	PBHSA0055Z	Roller Cleaning Paper	
23	PJPNB0062Z	Carton Box for Lamp Module	

15. REPLACEMENT PARTS LIST

IMPORTANT SAFETY NOTICE

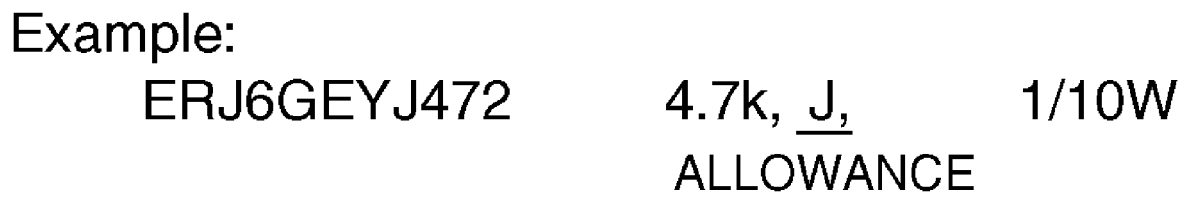
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note: RTL (Retention Time Limited)
The marking (RTL) in the Remark column indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of Part Name and Description

1. Resistor



ALLOWANCE	
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

2. Capacitor

ALLOWANCE	
C	±0.25pF
D	±0.5pF
F	±1pF
J	±5%
K	±10%
L	±15%
M	±20%
P	+100%, -0%
Z	+80%, -20%

15.1. MAIN Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R1001	ERJ3GEYJ472	4.7k / J / 1/16W	
R1003	ERJ3GEY0R00	0-ohm Jumper	
R1004	ERJ3EKF3001	3.0k / F / 1/10W	
R1005	ERJ3EKF3600	360 / F / 1/10W	
R1006	ERJ3EKF1001V	1.0k / F / 1/10W	
R1007	ERJ3EKF1001V	1.0k / F / 1/10W	
R1008	ERJ3GEY0R00	0-ohm Jumper	
R1009	ERJ3GEY0R00	0-ohm Jumper	
R1010	ERJ3GEY0R00	0-ohm Jumper	
R1011	ERJ3GEY0R00	0-ohm Jumper	
R1012	ERJ3GEY0R00	0-ohm Jumper	
R1013	ERJ3GEY0R00	0-ohm Jumper	
R1014	ERJ3GEYJ470	47 / J / 1/16W	
R1015	ERJ3GEYJ470	47 / J / 1/16W	
R1016	ERJ3GEYJ470	47 / J / 1/16W	
R1017	ERJ3GEYJ470	47 / J / 1/16W	
R1018	ERJ3GEY0R00	0-ohm Jumper	
R1019	ERJ3GEY0R00	0-ohm Jumper	
R1020	ERJ3GEY0R00	0-ohm Jumper	
R1021	ERJ3GEY0R00	0-ohm Jumper	
R1022	ERJ3GEYJ100	10 / J / 1/16W	
R1023	ERJ3GEYJ100	10 / J / 1/16W	
R1026	ERJ3GEY0R00	0-ohm Jumper	
R1027	ERJ3GEY0R00	0-ohm Jumper	
R1030	ERJ3GEYJ100	10 / J / 1/16W	
R1031	ERJ3GEYJ100	10 / J / 1/16W	
R1032	ERJ3GEYJ470	47 / J / 1/16W	
R1033	ERJ3GEYJ470	47 / J / 1/16W	
R1034	ERJ3GEYJ470	47 / J / 1/16W	
R1035	ERJ3GEYJ470	47 / J / 1/16W	
R1036	ERJ3GEYJ470	47 / J / 1/16W	
R1037	ERJ3GEYJ470	47 / J / 1/16W	
R1040	ERJ3GEYJ471	470 / J / 1/16W	
R1041	ERJ3GEYJ471	470 / J / 1/16W	
R1046	ERJ3GEYJ101	100 / J / 1/16W	
R1047	ERJ3GEYJ101	100 / J / 1/16W	
R1048	ERJ3GEYJ471	470 / J / 1/16W	
R1049	ERJ3GEYJ471	470 / J / 1/16W	
R1050	ERJ3GEY0R00	0-ohm Jumper	
R1051	ERJ3GEY0R00	0-ohm Jumper	
R1052	ERJ3GEY0R00	0-ohm Jumper	
R1053	ERJ3GEY0R00	0-ohm Jumper	
R1054	ERJ3GEYJ470	47 / J / 1/16W	
R1055	ERJ3GEYJ470	47 / J / 1/16W	
R1056	ERJ3GEYJ470	47 / J / 1/16W	
R1057	ERJ3GEYJ470	47 / J / 1/16W	
R1058	ERJ3GEY0R00	0-ohm Jumper	
R1059	ERJ3GEY0R00	0-ohm Jumper	
R1060	ERJ3GEY0R00	0-ohm Jumper	
R1061	ERJ3GEY0R00	0-ohm Jumper	
R1062	ERJ3GEYJ100	10 / J / 1/16W	
R1063	ERJ3GEYJ100	10 / J / 1/16W	
R1066	ERJ3GEY0R00	0-ohm Jumper	

Ref. No.	Part No.	Part Name & Description	Remarks
R1067	ERJ3GEY0R00	0-ohm Jumper	
R1070	ERJ3GEYJ100	10 / J / 1/16W	
R1071	ERJ3GEYJ100	10 / J / 1/16W	
R1072	ERJ3GEYJ470	47 / J / 1/16W	
R1073	ERJ3GEYJ470	47 / J / 1/16W	
R1074	ERJ3GEYJ470	47 / J / 1/16W	
R1075	ERJ3GEYJ470	47 / J / 1/16W	
R1076	ERJ3GEYJ470	47 / J / 1/16W	
R1077	ERJ3GEYJ470	47 / J / 1/16W	
R1080	ERJ3GEYJ471	470 / J / 1/16W	
R1081	ERJ3GEYJ471	470 / J / 1/16W	
R1086	ERJ3GEYJ101	100 / J / 1/16W	
R1087	ERJ3GEYJ101	100 / J / 1/16W	
R1088	ERJ3GEYJ471	470 / J / 1/16W	
R1089	ERJ3GEYJ471	470 / J / 1/16W	
R1091	ERJ3GEY0R00	0-ohm Jumper	
R1092	ERJ3EKF3001	3.0k / F / 1/10W	
R1093	ERJ3EKF3600	360 / F / 1/10W	
R1094	ERJ3EKF1001V	1.0k / F / 1/10W	
R1095	ERJ3EKF1001V	1.0k / F / 1/10W	
R1096	ERJ3GEY0R00	0-ohm Jumper	
R1097	ERJ3GEY0R00	0-ohm Jumper	
R1098	ERJ3GEY0R00	0-ohm Jumper	
R1099	ERJ3GEY0R00	0-ohm Jumper	
R1100	ERJ3GEY0R00	0-ohm Jumper	
R1101	ERJ3GEY0R00	0-ohm Jumper	
R1102	ERJ3GEYJ470	47 / J / 1/16W	
R1103	ERJ3GEYJ470	47 / J / 1/16W	
R1104	ERJ3GEYJ470	47 / J / 1/16W	
R1105	ERJ3GEYJ470	47 / J / 1/16W	
R1106	ERJ3GEY0R00	0-ohm Jumper	
R1107	ERJ3GEY0R00	0-ohm Jumper	
R1108	ERJ3GEY0R00	0-ohm Jumper	
R1109	ERJ3GEY0R00	0-ohm Jumper	
R1110	ERJ3GEYJ100	10 / J / 1/16W	
R1111	ERJ3GEYJ100	10 / J / 1/16W	
R1114	ERJ3GEY0R00	0-ohm Jumper	
R1115	ERJ3GEY0R00	0-ohm Jumper	
R1118	ERJ3GEYJ100	10 / J / 1/16W	
R1119	ERJ3GEYJ100	10 / J / 1/16W	
R1120	ERJ3GEYJ470	47 / J / 1/16W	
R1121	ERJ3GEYJ470	47 / J / 1/16W	
R1122	ERJ3GEYJ470	47 / J / 1/16W	
R1123	ERJ3GEYJ470	47 / J / 1/16W	
R1124	ERJ3GEYJ470	47 / J / 1/16W	
R1125	ERJ3GEYJ470	47 / J / 1/16W	
R1128	ERJ3GEYJ471	470 / J / 1/16W	
R1129	ERJ3GEYJ471	470 / J / 1/16W	
R1134	ERJ3GEYJ101	100 / J / 1/16W	
R1135	ERJ3GEYJ101	100 / J / 1/16W	
R1136	ERJ3GEYJ471	470 / J / 1/16W	
R1137	ERJ3GEYJ471	470 / J / 1/16W	
R1138	ERJ3GEYJ103	10k / J / 1/16W	
R1139	ERJ3GEYJ220	22 / J / 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1140	ERJ3GEYJ470	47 / J / 1/16W	
R1141	ERJ3GEYJ102	1k / J / 1/16W	
R1142	ERJ3GEYJ220	22 / J / 1/16W	
R1143	ERJ3GEYJ220	22 / J / 1/16W	
R1144	ERJ3GEYJ220	22 / J / 1/16W	
R1145	ERJ3GEYJ220	22 / J / 1/16W	
R1146	ERJ3GEYJ220	22 / J / 1/16W	
R1147	ERJ3GEYJ101	100 / J / 1/16W	
R1148	ERJ3GEYJ101	100 / J / 1/16W	
R1151	ERJ3GEYJ470	47 / J / 1/16W	
R1152	ERJ3GEYJ470	47 / J / 1/16W	
R1153	ERJ3GEYJ101	100 / J / 1/16W	
R1154	ERJ3GEYJ220	22 / J / 1/16W	
R1155	ERJ3GEYJ220	22 / J / 1/16W	
R1156	ERJ3GEYJ220	22 / J / 1/16W	
R1157	ERJ3GEYJ220	22 / J / 1/16W	
R1158	ERJ3GEYJ122	12 / J / 1/16W	
R1159	ERJ3GEYJ220	22 / J / 1/16W	
R1160	ERJ3GEYJ220	22 / J / 1/16W	
R1161	ERJ3GEYJ220	22 / J / 1/16W	
R1162	ERJ3GEYJ220	22 / J / 1/16W	
R1163	ERJ3GEYJ220	22 / J / 1/16W	
R1164	ERJ3GEYJ220	22 / J / 1/16W	
R1165	ERJ3GEYJ220	22 / J / 1/16W	
R1166	ERJ3GEYJ220	22 / J / 1/16W	
R1167	ERJ3GEYJ220	22 / J / 1/16W	
R1168	ERJ3GEYJ220	22 / J / 1/16W	
R1169	ERJ3GEYJ220	22 / J / 1/16W	
R1170	ERJ3GEYJ101	100 / J / 1/16W	
R1171	ERJ3GEYJ470	47 / J / 1/16W	
R1172	ERJ3GEYJ220	22 / J / 1/16W	
R1173	ERJ3GEYJ220	22 / J / 1/16W	
R1174	ERJ3GEYJ220	22 / J / 1/16W	
R1175	ERJ3GEYJ220	22 / J / 1/16W	
R1176	ERJ3GEYJ220	22 / J / 1/16W	
R1177	ERJ3GEYJ101	100 / J / 1/16W	
R1178	ERJ3GEYJ101	100 / J / 1/16W	
R1179	ERJ3GEYJ470	47 / J / 1/16W	
R1180	ERJ3GEYJ470	47 / J / 1/16W	
R1181	ERJ3GEYJ101	100 / J / 1/16W	
R1182	ERJ3GEYJ220	22 / J / 1/16W	
R1183	ERJ3GEYJ220	22 / J / 1/16W	
R1184	ERJ3GEYJ220	22 / J / 1/16W	
R1185	ERJ3GEYJ220	22 / J / 1/16W	
R1186	ERJ3GEYJ122	12 / J / 1/16W	
R1187	ERJ3GEYJ220	22 / J / 1/16W	
R1188	ERJ3GEYJ220	22 / J / 1/16W	
R1189	ERJ3GEYJ220	22 / J / 1/16W	
R1190	ERJ3GEYJ220	22 / J / 1/16W	
R1191	ERJ3GEYJ220	22 / J / 1/16W	
R1192	ERJ3GEYJ220	22 / J / 1/16W	
R1193	ERJ3GEYJ220	22 / J / 1/16W	
R1194	ERJ3GEYJ220	22 / J / 1/16W	
R1195	ERJ3GEYJ220	22 / J / 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1196	ERJ3GEYJ220	22 / J / 1/16W	
R1197	ERJ3GEYJ220	22 / J / 1/16W	
R1199	ERJ3GEY0R00	0-ohm Jumper	
R1205	ERJ3GEY0R00	0-ohm Jumper	
R1216	ERJ3GEYJ103	10k / J / 1/16W	
R1218	ERJ3GEYJ103	10k / J / 1/16W	
R1220	ERJ3GEYJ103	10k / J / 1/16W	
R1222	ERJ3GEYJ103	10k / J / 1/16W	
R1223	ERJ3GEYJ101	100 / J / 1/16W	
R1224	ERJ3GEYJ220	22 / J / 1/16W	
R1244	ERJ3GEYJ473	47k / J / 1/16W	
R1245	ERJ3GEYJ473	47k / J / 1/16W	
R1246	ERJ3GEYJ473	47k / J / 1/16W	
R1247	ERJ3GEYJ473	47k / J / 1/16W	
R1248	ERJ3GEYJ473	47k / J / 1/16W	
R1249	ERJ3GEYJ473	47k / J / 1/16W	
R1250	ERJ3GEYJ473	47k / J / 1/16W	
R1251	ERJ3GEYJ473	47k / J / 1/16W	
R1252	ERJ3GEYJ473	47k / J / 1/16W	
R1253	ERJ3GEYJ473	47k / J / 1/16W	
R1254	ERJ3GEYJ473	47k / J / 1/16W	
R1255	ERJ3GEYJ473	47k / J / 1/16W	
R1256	ERJ3GEYJ473	47k / J / 1/16W	
R1257	ERJ3GEYJ473	47k / J / 1/16W	
R1258	ERJ3GEYJ473	47k / J / 1/16W	
R1259	ERJ3GEYJ334	330k / J / 1/16W	
R1260	ERJ3GEYJ334	330k / J / 1/16W	
R1261	ERJ3GEYJ334	330k / J / 1/16W	
R1262	ERJ3GEYJ334	330k / J / 1/16W	
R1263	ERJ3GEYJ473	47k / J / 1/16W	
R1264	ERJ3GEYJ334	330k / J / 1/16W	
R1265	ERJ3GEYJ224	220k / J / 1/16W	
R1266	ERJ3GEYJ334	330k / J / 1/16W	
R1267	ERJ3GEYJ334	330k / J / 1/16W	
R1268	ERJ3GEYJ334	330k / J / 1/16W	
R1269	ERJ3GEYJ224	220k / J / 1/16W	
R1270	ERJ3GEYJ334	330k / J / 1/16W	
R1271	ERJ3GEYJ334	330k / J / 1/16W	
R1272	ERJ3GEYJ224	220k / J / 1/16W	
R1273	ERJ3GEYJ334	330k / J / 1/16W	
R1274	ERJ3GEYJ224	220k / J / 1/16W	
R1275	ERJ3GEYJ334	330k / J / 1/16W	
R1276	ERJ3GEYJ332	3.3k / J / 1/16W	
R1277	ERJ3GEYJ332	3.3k / J / 1/16W	
R1278	ERJ3GEYJ332	3.3k / J / 1/16W	
R1279	ERJ3GEYJ332	3.3k / J / 1/16W	
R1280	ERJ3GEYJ332	3.3k / J / 1/16W	
R1281	ERJ3GEYJ332	3.3k / J / 1/16W	
R1282	ERJ3GEYJ332	3.3k / J / 1/16W	
R1283	ERJ3GEYJ332	3.3k / J / 1/16W	
R1284	ERJ3GEYJ332	3.3k / J / 1/16W	
R1285	ERJ3GEYJ332	3.3k / J / 1/16W	
R1286	ERJ3GEYJ332	3.3k / J / 1/16W	
R1287	ERJ3GEYJ332	3.3k / J / 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1288	ERJ3GEYJ332	3.3k / J / 1/16W	
R1289	ERJ3GEYJ332	3.3k / J / 1/16W	
R1290	ERJ3GEYJ332	3.3k / J / 1/16W	
R1291	ERJ3GEYJ332	3.3k / J / 1/16W	
R1309	ERJ3GEYJ473	47k / J / 1/16W	
R1310	ERJ3GEYJ103	10k / J / 1/16W	
R1311	ERJ3GEYJ681	680 / J / 1/16W	
R1312	ERJ3GEYJ272	2.7k / J / 1/16W	
R1313	ERJ3EKF1002V	10k / F / 1/10W	
R1314	ERJ3GEY0R00	0-ohm Jumper	
R1315	ERJ3GEYJ472	4.7k / J / 1/16W	
R1316	ERJ3GEYJ472	4.7k / J / 1/16W	
R1317	ERJ3GEY0R00	0-ohm Jumper	
R1320	ERJ3GEYJ681	680 / J / 1/16W	
R1322	ERJ3GEYJ201	200 / J / 1/16W	
R1323	ERJ3GEYJ394	390k / J / 1/16W	
R1324	ERJ3GEYJ184	180k / J / 1/16W	
R1325	ERJ3GEYJ103	10k / J / 1/16W	
R1327	ERJ3GEY0R00	0-ohm Jumper	
R1329	ERJ3GEYJ103	10k / J / 1/16W	
R1331	ERJ3GEYJ103	10k / J / 1/16W	
R1333	ERJ3GEYJ103	10k / J / 1/16W	
R1334	ERJ3GEYJ103	10k / J / 1/16W	
R1335	ERJ3GEYJ103	10k / J / 1/16W	
R1336	ERJ3GEYJ103	10k / J / 1/16W	
R1337	ERJ3GEYJ681	680 / J / 1/16W	
R1338	ERJ3GEYJ681	680 / J / 1/16W	
R1339	ERJ3GEYJ103	10k / J / 1/16W	
R1340	ERJ3GEYJ103	10k / J / 1/16W	
R1341	ERJ3GEYJ103	10k / J / 1/16W	
R1342	ERJ3GEYJ103	10k / J / 1/16W	
R1343	ERJ3GEYJ103	10k / J / 1/16W	
R1344	ERJ3GEYJ103	10k / J / 1/16W	
R1345	ERJ3GEYJ103	10k / J / 1/16W	
R1346	ERJ3GEYJ220	22 / J / 1/16W	
R1347	ERJ3GEYJ103	10k / J / 1/16W	
R1348	ERJ3GEYJ272	2.7k / J / 1/16W	
R1349	ERJ3GEYJ472	4.7k / J / 1/16W	
R1350	ERJ3GEYJ103	10k / J / 1/16W	
R1351	ERJ3GEYJ103	10k / J / 1/16W	
R1352	ERJ3GEYJ103	10k / J / 1/16W	
R1353	ERJ3GEYJ103	10k / J / 1/16W	
R1354	ERJ3GEYJ103	10k / J / 1/16W	
R1355	ERJ3GEYJ103	10k / J / 1/16W	
R1356	ERJ3GEYJ103	10k / J / 1/16W	
R1357	ERJ3GEYJ103	10k / J / 1/16W	
R1358	ERJ3GEYJ103	10k / J / 1/16W	
R1359	ERJ3GEYJ103	10k / J / 1/16W	
R1360	ERJ3GEYJ103	10k / J / 1/16W	
R1361	ERJ3GEY0R00	0-ohm Jumper	
R1363	ERJ3GEYJ103	10k / J / 1/16W	
R1364	ERJ3GEYJ103	10k / J / 1/16W	
R1365	ERJ3GEYJ103	10k / J / 1/16W	
R1367	ERJ3GEY0R00	0-ohm Jumper	

Ref. No.	Part No.	Part Name & Description	Remarks
R1369	ERJ3GEYJ103	10k / J / 1/16W	
R1370	ERJ3GEYJ103	10k / J / 1/16W	
R1371	ERJ3GEYJ103	10k / J / 1/16W	
R1373	ERJ3GEYJ103	10k / J / 1/16W	
R1375	ERJ3GEYJ103	10k / J / 1/16W	
R1377	ERJ3GEYJ103	10k / J / 1/16W	
R1379	ERJ3GEYJ103	10k / J / 1/16W	
R1380	ERJ3GEYJ103	10k / J / 1/16W	
R1381	ERJ3GEYJ470	47 / J / 1/16W	
R1382	ERJ3GEYJ103	10k / J / 1/16W	
R1383	ERJ3GEYJ103	10k / J / 1/16W	
R1384	ERJ3GEYJ103	10k / J / 1/16W	
R1386	ERJ3GEYJ103	10k / J / 1/16W	
R1387	ERJ3GEYJ103	10k / J / 1/16W	
R1388	ERJ3GEYJ103	10k / J / 1/16W	
R1389	ERJ3GEYJ103	10k / J / 1/16W	
R1390	ERJ3GEYJ103	10k / J / 1/16W	
R1391	ERJ3GEYJ470	47 / J / 1/16W	
R1392	ERJ3GEYJ100	10 / J / 1/16W	
R1394	ERJ3GEY0R00	0-ohm Jumper	
R1395	ERJ3GEYJ102	1k / J / 1/16W	
R1396	ERJ3GEY0R00	0-ohm Jumper	
R1399	ERJ3GEY0R00	0-ohm Jumper	
R1400	ERJ3GEYJ470	47 / J / 1/16W	
R1401	ERJ3GEYJ470	47 / J / 1/16W	
R1402	ERJ3GEYJ103	10k / J / 1/16W	
R1403	ERJ3GEYJ103	10k / J / 1/16W	
R1404	ERJ3GEYJ103	10k / J / 1/16W	
Z1001	MNR14E0AJ470	Resistor Array	
Z1002	MNR14E0AJ470	Resistor Array	
Z1003	MNR14E0AJ470	Resistor Array	
Z1004	MNR14E0AJ470	Resistor Array	
Z1005	MNR14E0AJ470	Resistor Array	
Z1006	MNR14E0AJ470	Resistor Array	
Z1007	MNR14E0AJ470	Resistor Array	
Z1008	MNR14E0AJ470	Resistor Array	
Z1009	MNR14E0AJ470	Resistor Array	
Z1010	MNR14E0AJ470	Resistor Array	
Z1011	MNR14E0AJ470	Resistor Array	
Z1012	MNR14E0AJ470	Resistor Array	
Z1013	MNR14E0AJ220	Resistor Array	
Z1014	MNR14E0AJ220	Resistor Array	
Z1015	MNR14E0AJ220	Resistor Array	
Z1016	MNR14E0AJ220	Resistor Array	
Z1017	MNR14E0AJ220	Resistor Array	
Z1018	MNR14E0AJ220	Resistor Array	
Z1019	MNR14E0AJ220	Resistor Array	
Z1020	MNR14E0AJ220	Resistor Array	
Z1021	MNR14E0AJ220	Resistor Array	
Z1022	MNR14E0AJ220	Resistor Array	
Z1023	MNR14E0AJ220	Resistor Array	
Z1024	MNR14E0AJ220	Resistor Array	
Z1025	MNR14E0AJ220	Resistor Array	
Z1026	MNR14E0AJ220	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z1027	MNR14E0AJ220	Resistor Array	
Z1028	MNR14E0AJ220	Resistor Array	
Z1029	MNR14E0AJ220	Resistor Array	
Z1030	MNR14E0AJ220	Resistor Array	
Z1031	MNR14E0AJ220	Resistor Array	
Z1032	MNR14E0AJ220	Resistor Array	
Z1033	MNR14E0AJ220	Resistor Array	
Z1034	MNR14E0AJ220	Resistor Array	
Z1035	MNR14E0AJ220	Resistor Array	
Z1036	MNR14E0AJ220	Resistor Array	
Z1037	MNR14E0AJ220	Resistor Array	
Z1038	MNR14E0AJ220	Resistor Array	
Z1039	MNR14E0AJ220	Resistor Array	
Z1040	MNR14E0AJ220	Resistor Array	
Z1041	MNR14E0AJ220	Resistor Array	
Z1042	MNR14E0AJ220	Resistor Array	
Z1043	MNR14E0AJ220	Resistor Array	
Z1044	MNR14E0AJ220	Resistor Array	
Z1045	MNR14E0AJ220	Resistor Array	
Z1046	MNR14E0AJ220	Resistor Array	
Z1047	MNR14E0AJ220	Resistor Array	
Z1048	MNR14E0AJ220	Resistor Array	
Z1049	MNR14E0AJ220	Resistor Array	
Z1050	MNR14E0AJ220	Resistor Array	
Z1051	MNR14E0AJ220	Resistor Array	
Z1052	MNR14E0AJ220	Resistor Array	
Z1053	MNR14E0AJ220	Resistor Array	
Z1054	MNR14E0AJ220	Resistor Array	
Z1055	MNR14E0AJ220	Resistor Array	
Z1056	MNR14E0AJ220	Resistor Array	
Z1057	MNR14E0AJ220	Resistor Array	
Z1058	MNR14E0AJ220	Resistor Array	
Z1059	MNR14E0AJ220	Resistor Array	
Z1060	MNR14E0AJ220	Resistor Array	
Z1061	MNR14E0AJ220	Resistor Array	
Z1062	MNR14E0AJ220	Resistor Array	
Z1063	MNR14E0AJ220	Resistor Array	
Z1064	MNR14E0AJ220	Resistor Array	
Z1065	MNR14E0AJ220	Resistor Array	
Z1066	MNR14E0AJ220	Resistor Array	
Z1067	MNR14E0AJ220	Resistor Array	
Z1068	MNR14E0AJ220	Resistor Array	
Z1069	MNR14E0AJ220	Resistor Array	
Z1070	MNR14E0AJ220	Resistor Array	
Z1071	MNR14E0AJ220	Resistor Array	
Z1072	MNR14E0AJ220	Resistor Array	
Z1073	MNR14E0AJ220	Resistor Array	
Z1074	MNR14E0AJ220	Resistor Array	
Z1075	MNR14E0AJ220	Resistor Array	
Z1076	MNR14E0AJ220	Resistor Array	
Z1077	MNR14E0AJ220	Resistor Array	
Z1078	MNR14E0AJ220	Resistor Array	
Z1079	MNR14E0AJ220	Resistor Array	
Z1080	MNR14E0AJ220	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z1081	MNR14E0AJ220	Resistor Array	
Z1082	MNR14E0AJ220	Resistor Array	
Z1083	MNR14E0AJ220	Resistor Array	
Z1084	MNR14E0AJ220	Resistor Array	
Z1085	MNR14E0AJ220	Resistor Array	
Z1086	MNR14E0AJ220	Resistor Array	
Z1087	MNR14E0AJ220	Resistor Array	
Z1088	MNR14E0AJ220	Resistor Array	
Z1089	MNR14E0AJ220	Resistor Array	
Z1090	MNR14E0AJ220	Resistor Array	
Z1091	MNR14E0AJ220	Resistor Array	
Z1092	MNR14E0AJ220	Resistor Array	
Z1093	MNR14E0AJ220	Resistor Array	
Z1094	MNR14E0AJ220	Resistor Array	
Z1095	MNR14E0AJ220	Resistor Array	
Z1096	MNR14E0AJ220	Resistor Array	
Z1097	MNR14E0AJ220	Resistor Array	
Z1098	MNR14E0AJ220	Resistor Array	
Z1099	MNR14E0AJ220	Resistor Array	
Z1100	MNR14E0AJ220	Resistor Array	
Z1101	D1H822240002	Resistor Array	
Z1102	D1H822240002	Resistor Array	
Z1103	D1H82724A007	Resistor Array	
Z1104	MNR14E0AJ220	Resistor Array	
Z1105	D1H82724A007	Resistor Array	
Z1106	MNR14E0AJ103	Resistor Array	
Z1107	MNR14E0AJ103	Resistor Array	
Z1108	MNR14E0AJ220	Resistor Array	
Z1109	MNR14E0AJ103	Resistor Array	
Z1110	MNR14E0AJ220	Resistor Array	
Z1111	MNR14E0AJ220	Resistor Array	
Z1112	MNR14E0AJ220	Resistor Array	
Z1113	MNR14E0AJ220	Resistor Array	
Z1114	MNR14E0AJ220	Resistor Array	
Z1115	MNR14E0AJ220	Resistor Array	
Z1116	MNR14E0AJ220	Resistor Array	
Z1117	MNR14E0AJ220	Resistor Array	
Z1118	MNR14E0AJ103	Resistor Array	
Z1119	MNR14E0AJ103	Resistor Array	
Z1120	MNR14E0AJ220	Resistor Array	
Z1121	MNR14E0AJ220	Resistor Array	
Z1122	MNR14E0AJ220	Resistor Array	
Z1123	MNR14E0AJ220	Resistor Array	
Z1124	MNR14E0AJ220	Resistor Array	
Z1125	MNR14E0AJ103	Resistor Array	
Z1126	MNR14E0AJ103	Resistor Array	
Z1127	MNR14E0AJ103	Resistor Array	
Z1128	MNR14E0AJ103	Resistor Array	
Z1129	MNR14E0AJ103	Resistor Array	
Z1130	MNR14E0AJ220	Resistor Array	
Z1131	MNR14E0AJ220	Resistor Array	
Z1132	MNR14E0AJ103	Resistor Array	
Z1133	MNR14E0AJ103	Resistor Array	
Z1134	MNR14E0AJ103	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z1135	MNR14E0AJ103	Resistor Array	
Z1136	MNR14E0AJ103	Resistor Array	
Z1137	MNR14E0AJ103	Resistor Array	
Z1138	MNR14E0AJ103	Resistor Array	
Z1139	MNR14E0AJ220	Resistor Array	
Z1140	MNR14E0AJ220	Resistor Array	
Z1141	MNR14E0AJ220	Resistor Array	
Z1142	MNR14E0AJ220	Resistor Array	
Z1143	MNR14E0AJ103	Resistor Array	
Z1144	MNR14E0AJ103	Resistor Array	
		CAPACITORS	
C1001	ECUX1E104ZFV	0.1 / Z / 25V	
C1002	ECUX1H102KBV	1000p / K / 50V	
C1003	ECUX1E104ZFV	0.1 / Z / 25V	
C1004	ECUX1E104ZFV	0.1 / Z / 25V	
C1005	ECUX1H102KBV	1000p / K / 50V	
C1006	ECEV1AA101SP	100 / 10V	
C1007	ECUX1H102KBV	1000p / K / 50V	
C1008	ECEV1AA101SP	100 / 10V	
C1009	EZASCE220M	Capacitor Array	
C1010	EZASCE220M	Capacitor Array	
C1011	EZASCE220M	Capacitor Array	
C1012	EZASCE220M	Capacitor Array	
C1013	EZASCE220M	Capacitor Array	
C1014	EZASCE220M	Capacitor Array	
C1015	ECUX1H220JCV	22p / J / 50V	
C1016	ECEV1AA101SP	100 / 10V	
C1017	ECEV1AA101SP	100 / 10V	
C1018	ECUX1H220JCV	22p / J / 50V	
C1019	ECEV1AA101SP	100 / 10V	
C1020	ECEV1AA101SP	100 / 10V	
C1021	ECEV1AA101SP	100 / 10V	
C1022	ECEV1AA101SP	100 / 10V	
C1023	ECUX1E104ZFV	0.1 / Z / 25V	
C1024	ECUX1E104ZFV	0.1 / Z / 25V	
C1025	ECUX1E104ZFV	0.1 / Z / 25V	
C1026	ECUX1H102KBV	1000p / K / 50V	
C1027	ECUX1H102KBV	1000p / K / 50V	
C1028	ECUX1H102KBV	1000p / K / 50V	
C1033	EZASCE220M	Capacitor Array	
C1034	EZASCE220M	Capacitor Array	
C1035	EZASCE220M	Capacitor Array	
C1036	EZASCE220M	Capacitor Array	
C1038	ECUX1H220JCV	22p / J / 50V	
C1039	ECUX1H220JCV	22p / J / 50V	
C1040	ECUX1E104ZFV	0.1 / Z / 25V	
C1041	ECUX1E104ZFV	0.1 / Z / 25V	
C1042	ECUX1E104ZFV	0.1 / Z / 25V	
C1043	ECUX1E104ZFV	0.1 / Z / 25V	
C1044	ECEV0JA470S	47 / 6.3V	
C1045	ECEV0JA470S	47 / 6.3V	
C1046	ECUX1E104ZFV	0.1 / Z / 25V	
C1047	ECUX1E104ZFV	0.1 / Z / 25V	
C1048	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1049	ECUX1E104ZFV	0.1 / Z / 25V	
C1050	ECUX1E104ZFV	0.1 / Z / 25V	
C1051	ECUX1E104ZFV	0.1 / Z / 25V	
C1052	ECUX1E104ZFV	0.1 / Z / 25V	
C1053	ECUX1E104ZFV	0.1 / Z / 25V	
C1054	ECUX1E104ZFV	0.1 / Z / 25V	
C1055	ECEV1CA100SR	10 / 16V	
C1056	ECEV1CA100SR	10 / 16V	
C1057	ECUX1E104ZFV	0.1 / Z / 25V	
C1058	ECUX1E104ZFV	0.1 / Z / 25V	
C1059	ECUX1E104ZFV	0.1 / Z / 25V	
C1060	ECUX1E104ZFV	0.1 / Z / 25V	
C1061	ECUX1E104ZFV	0.1 / Z / 25V	
C1062	ECUX1E104ZFV	0.1 / Z / 25V	
C1063	ECUX1E104ZFV	0.1 / Z / 25V	
C1064	ECEV1CA100SR	10 / 16V	
C1065	ECUX1E104ZFV	0.1 / Z / 25V	
C1066	ECEV1CA100SR	10 / 16V	
C1067	ECUX1E104ZFV	0.1 / Z / 25V	
C1068	ECUX1E104ZFV	0.1 / Z / 25V	
C1069	ECUX1E104ZFV	0.1 / Z / 25V	
C1070	ECUX1E104ZFV	0.1 / Z / 25V	
C1071	ECEV1CA100SR	10 / 16V	
C1072	ECEV1CA100SR	10 / 16V	
C1073	ECUX1E104ZFV	0.1 / Z / 25V	
C1074	ECUX1E104ZFV	0.1 / Z / 25V	
C1075	ECUX1E104ZFV	0.1 / Z / 25V	
C1076	ECUX1E104ZFV	0.1 / Z / 25V	
C1079	ECEV1CA100SR	10 / 16V	
C1080	ECEV1CA100SR	10 / 16V	
C1081	ECUX1H220JCV	22p / J / 50V	
C1082	ECUX1H220JCV	22p / J / 50V	
C1083	ECUX1E104ZFV	0.1 / Z / 25V	
C1084	ECUX1E104ZFV	0.1 / Z / 25V	
C1086	ECUX1E104ZFV	0.1 / Z / 25V	
C1087	ECUX1E104ZFV	0.1 / Z / 25V	
C1089	ECUX1E104ZFV	0.1 / Z / 25V	
C1090	ECUX1E104ZFV	0.1 / Z / 25V	
C1091	ECUX1E104ZFV	0.1 / Z / 25V	
C1092	ECUX1E104ZFV	0.1 / Z / 25V	
C1095	ECUX1E104ZFV	0.1 / Z / 25V	
C1096	ECUX1E104ZFV	0.1 / Z / 25V	
C1097	ECUX1E104ZFV	0.1 / Z / 25V	
C1098	ECUX1E104ZFV	0.1 / Z / 25V	
C1099	ECUX1E104ZFV	0.1 / Z / 25V	
C1100	ECUX1E104ZFV	0.1 / Z / 25V	
C1101	ECUX1E104ZFV	0.1 / Z / 25V	
C1102	ECUX1E104ZFV	0.1 / Z / 25V	
C1103	ECEV1CA100SR	10 / 16V	
C1104	ECEV1CA100SR	10 / 16V	
C1105	ECEV1CA100SR	10 / 16V	
C1106	ECEV1CA100SR	10 / 16V	
C1107	ECUX1E104ZFV	0.1 / Z / 25V	
C1108	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1109	ECUX1E104ZFV	0.1 / Z / 25V	
C1110	ECUX1E104ZFV	0.1 / Z / 25V	
C1111	ECUX1E104ZFV	0.1 / Z / 25V	
C1112	ECUX1E104ZFV	0.1 / Z / 25V	
C1113	ECUX1E104ZFV	0.1 / Z / 25V	
C1114	ECUX1E104ZFV	0.1 / Z / 25V	
C1115	ECUX1E104ZFV	0.1 / Z / 25V	
C1116	ECUX1E104ZFV	0.1 / Z / 25V	
C1117	ECUX1E104ZFV	0.1 / Z / 25V	
C1118	ECUX1E104ZFV	0.1 / Z / 25V	
C1119	ECEV1CA100SR	10 / 16V	
C1120	ECEV1CA100SR	10 / 16V	
C1121	ECUX1E104ZFV	0.1 / Z / 25V	
C1122	ECUX1E104ZFV	0.1 / Z / 25V	
C1123	ECUX1E104ZFV	0.1 / Z / 25V	
C1124	ECUX1E104ZFV	0.1 / Z / 25V	
C1125	ECUX1E104ZFV	0.1 / Z / 25V	
C1126	ECUX1E104ZFV	0.1 / Z / 25V	
C1127	ECUX1E104ZFV	0.1 / Z / 25V	
C1128	ECEV1CA100SR	10 / 16V	
C1129	ECUX1E104ZFV	0.1 / Z / 25V	
C1130	ECEV1CA100SR	10 / 16V	
C1131	ECUX1E104ZFV	0.1 / Z / 25V	
C1132	ECUX1E104ZFV	0.1 / Z / 25V	
C1133	ECUX1E104ZFV	0.1 / Z / 25V	
C1134	ECUX1E104ZFV	0.1 / Z / 25V	
C1135	ECEV1CA100SR	10 / 16V	
C1136	ECEV1CA100SR	10 / 16V	
C1137	ECUX1E104ZFV	0.1 / Z / 25V	
C1138	ECUX1E104ZFV	0.1 / Z / 25V	
C1139	ECUX1E104ZFV	0.1 / Z / 25V	
C1140	ECUX1E104ZFV	0.1 / Z / 25V	
C1143	ECEV1CA100SR	10 / 16V	
C1144	ECEV1CA100SR	10 / 16V	
C1145	ECUX1H220JCV	22p / J / 50V	
C1146	ECUX1H220JCV	22p / J / 50V	
C1147	ECUX1E104ZFV	0.1 / Z / 25V	
C1148	ECUX1E104ZFV	0.1 / Z / 25V	
C1150	ECUX1E104ZFV	0.1 / Z / 25V	
C1151	ECUX1E104ZFV	0.1 / Z / 25V	
C1153	ECUX1E104ZFV	0.1 / Z / 25V	
C1154	ECUX1E104ZFV	0.1 / Z / 25V	
C1155	ECUX1E104ZFV	0.1 / Z / 25V	
C1156	ECUX1E104ZFV	0.1 / Z / 25V	
C1159	ECUX1E104ZFV	0.1 / Z / 25V	
C1160	ECUX1E104ZFV	0.1 / Z / 25V	
C1161	ECUX1E104ZFV	0.1 / Z / 25V	
C1162	ECUX1E104ZFV	0.1 / Z / 25V	
C1163	ECUX1E104ZFV	0.1 / Z / 25V	
C1164	ECUX1E104ZFV	0.1 / Z / 25V	
C1165	ECUX1E104ZFV	0.1 / Z / 25V	
C1166	ECUX1E104ZFV	0.1 / Z / 25V	
C1167	ECEV1CA100SR	10 / 16V	
C1168	ECEV1CA100SR	10 / 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1169	ECEV1CA100SR	10 / 16V	
C1170	ECEV1CA100SR	10 / 16V	
C1171	ECUX1E104ZFV	0.1 / Z / 25V	
C1172	ECUX1E104ZFV	0.1 / Z / 25V	
C1173	ECUX1E104ZFV	0.1 / Z / 25V	
C1174	ECUX1E104ZFV	0.1 / Z / 25V	
C1175	ECUX1E104ZFV	0.1 / Z / 25V	
C1176	ECUX1E104ZFV	0.1 / Z / 25V	
C1177	ECUX1E104ZFV	0.1 / Z / 25V	
C1178	ECUX1E104ZFV	0.1 / Z / 25V	
C1179	ECUX1E104ZFV	0.1 / Z / 25V	
C1180	ECUX1E104ZFV	0.1 / Z / 25V	
C1181	ECEV0JA470S	47 / 6.3V	
C1182	ECEV0JA470S	47 / 6.3V	
C1183	ECUX1E104ZFV	0.1 / Z / 25V	
C1184	ECUX1E104ZFV	0.1 / Z / 25V	
C1185	ECUX1E104ZFV	0.1 / Z / 25V	
C1186	ECUX1E104ZFV	0.1 / Z / 25V	
C1187	ECUX1E104ZFV	0.1 / Z / 25V	
C1188	ECUX1E104ZFV	0.1 / Z / 25V	
C1189	ECUX1E104ZFV	0.1 / Z / 25V	
C1190	ECUX1E104ZFV	0.1 / Z / 25V	
C1191	ECUX1E104ZFV	0.1 / Z / 25V	
C1192	ECEV1CA100SR	10 / 16V	
C1193	ECEV1CA100SR	10 / 16V	
C1194	ECUX1E104ZFV	0.1 / Z / 25V	
C1195	ECUX1E104ZFV	0.1 / Z / 25V	
C1196	ECUX1E104ZFV	0.1 / Z / 25V	
C1197	ECUX1E104ZFV	0.1 / Z / 25V	
C1198	ECUX1E104ZFV	0.1 / Z / 25V	
C1199	ECUX1E104ZFV	0.1 / Z / 25V	
C1200	ECUX1E104ZFV	0.1 / Z / 25V	
C1201	ECEV1CA100SR	10 / 16V	
C1202	ECUX1E104ZFV	0.1 / Z / 25V	
C1203	ECEV1CA100SR	10 / 16V	
C1204	ECUX1E104ZFV	0.1 / Z / 25V	
C1205	ECUX1E104ZFV	0.1 / Z / 25V	
C1206	ECUX1E104ZFV	0.1 / Z / 25V	
C1207	ECUX1E104ZFV	0.1 / Z / 25V	
C1208	ECEV1CA100SR	10 / 16V	
C1209	ECEV1CA100SR	10 / 16V	
C1210	ECUX1E104ZFV	0.1 / Z / 25V	
C1211	ECUX1E104ZFV	0.1 / Z / 25V	
C1212	ECUX1E104ZFV	0.1 / Z / 25V	
C1213	ECUX1E104ZFV	0.1 / Z / 25V	
C1216	ECEV1CA100SR	10 / 16V	
C1217	ECEV1CA100SR	10 / 16V	
C1218	ECUX1H220JCV	22p / J / 50V	
C1219	ECUX1H220JCV	22p / J / 50V	
C1220	ECUX1E104ZFV	0.1 / Z / 25V	
C1221	ECUX1E104ZFV	0.1 / Z / 25V	
C1222	ECUX1E104ZFV	0.1 / Z / 25V	
C1223	ECUX1E104ZFV	0.1 / Z / 25V	
C1224	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1226	ECUX1E104ZFV	0.1 / Z / 25V	
C1227	ECUX1E104ZFV	0.1 / Z / 25V	
C1228	ECUX1E104ZFV	0.1 / Z / 25V	
C1229	ECUX1E104ZFV	0.1 / Z / 25V	
C1232	ECUX1E104ZFV	0.1 / Z / 25V	
C1233	ECUX1E104ZFV	0.1 / Z / 25V	
C1234	ECUX1E104ZFV	0.1 / Z / 25V	
C1235	ECUX1E104ZFV	0.1 / Z / 25V	
C1236	ECUX1E104ZFV	0.1 / Z / 25V	
C1237	ECUX1E104ZFV	0.1 / Z / 25V	
C1238	ECUX1E104ZFV	0.1 / Z / 25V	
C1239	ECUX1E104ZFV	0.1 / Z / 25V	
C1240	ECEV1CA100SR	10 / 16V	
C1241	ECEV1CA100SR	10 / 16V	
C1242	ECEV1CA100SR	10 / 16V	
C1243	ECEV1CA100SR	10 / 16V	
C1244	ECUX1E104ZFV	0.1 / Z / 25V	
C1245	ECUX1E104ZFV	0.1 / Z / 25V	
C1246	ECUX1E104ZFV	0.1 / Z / 25V	
C1247	ECUX1E104ZFV	0.1 / Z / 25V	
C1248	ECUX1E104ZFV	0.1 / Z / 25V	
C1249	ECUX1E104ZFV	0.1 / Z / 25V	
C1250	ECUX1H102KBV	1000p / K / 50V	
C1251	ECUX1H102KBV	1000p / K / 50V	
C1252	ECUX1E104ZFV	0.1 / Z / 25V	
C1253	ECUX1H102KBV	1000p / K / 50V	
C1254	ECUX1H331JCV	330p / J / 50V	
C1255	ECUX1H102KBV	1000p / K / 50V	
C1256	ECUX1H220JCV	22p / J / 50V	
C1257	ECUX1H220JCV	22p / J / 50V	
C1258	ECUX1E104ZFV	0.1 / Z / 25V	
C1259	ECUX1E104ZFV	0.1 / Z / 25V	
C1260	ECUX1E104ZFV	0.1 / Z / 25V	
C1261	ECUX1E104ZFV	0.1 / Z / 25V	
C1262	ECUX1E104ZFV	0.1 / Z / 25V	
C1263	ECUX1E104ZFV	0.1 / Z / 25V	
C1264	ECUX1E104ZFV	0.1 / Z / 25V	
C1265	ECUX1E104ZFV	0.1 / Z / 25V	
C1266	ECUX1E104ZFV	0.1 / Z / 25V	
C1267	ECUX1E104ZFV	0.1 / Z / 25V	
C1268	ECUX1H102KBV	1000p / K / 50V	
C1269	ECUX1H102KBV	1000p / K / 50V	
C1270	ECUX1H102KBV	1000p / K / 50V	
C1271	ECUX1H102KBV	1000p / K / 50V	
C1272	ECUX1H102KBV	1000p / K / 50V	
C1273	ECUX1E104ZFV	0.1 / Z / 25V	
C1274	ECUX1E104ZFV	0.1 / Z / 25V	
C1275	ECUX1E104ZFV	0.1 / Z / 25V	
C1276	ECUX1E104ZFV	0.1 / Z / 25V	
C1277	ECUX1E104ZFV	0.1 / Z / 25V	
C1278	ECUX1H102KBV	1000p / K / 50V	
C1279	ECUX1H102KBV	1000p / K / 50V	
C1280	ECUX1H102KBV	1000p / K / 50V	
C1281	ECUX1H102KBV	1000p / K / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1282	ECUX1H102KBV	1000p / K / 50V	
C1283	ECUX1E104ZFV	0.1 / Z / 25V	
C1284	ECUX1E104ZFV	0.1 / Z / 25V	
C1285	ECUX1E104ZFV	0.1 / Z / 25V	
C1286	ECUX1E104ZFV	0.1 / Z / 25V	
C1287	ECUX1H102KBV	1000p / K / 50V	
C1288	ECUX1H102KBV	1000p / K / 50V	
C1289	ECUX1H102KBV	1000p / K / 50V	
C1290	ECUX1H102KBV	1000p / K / 50V	
C1291	ECUX1E104ZFV	0.1 / Z / 25V	
C1292	ECUX1E104ZFV	0.1 / Z / 25V	
C1293	ECUX1E104ZFV	0.1 / Z / 25V	
C1294	ECUX1H102KBV	1000p / K / 50V	
C1295	ECUX1H102KBV	1000p / K / 50V	
C1296	ECUX1H102KBV	1000p / K / 50V	
C1297	ECUX1H331JCV	330p / J / 50V	
C1298	ECUX1H102KBV	1000p / K / 50V	
C1299	ECUX1H220JCV	22p / J / 50V	
C1300	ECUX1H220JCV	22p / J / 50V	
C1301	ECUX1E104ZFV	0.1 / Z / 25V	
C1302	ECUX1E104ZFV	0.1 / Z / 25V	
C1303	ECUX1E104ZFV	0.1 / Z / 25V	
C1304	ECUX1E104ZFV	0.1 / Z / 25V	
C1305	ECUX1E104ZFV	0.1 / Z / 25V	
C1306	ECUX1E104ZFV	0.1 / Z / 25V	
C1307	ECUX1E104ZFV	0.1 / Z / 25V	
C1308	ECUX1E104ZFV	0.1 / Z / 25V	
C1309	ECUX1E104ZFV	0.1 / Z / 25V	
C1310	ECUX1H102KBV	1000p / K / 50V	
C1311	ECUX1H102KBV	1000p / K / 50V	
C1312	ECUX1H102KBV	1000p / K / 50V	
C1313	ECUX1H102KBV	1000p / K / 50V	
C1314	ECUX1H102KBV	1000p / K / 50V	
C1315	ECUX1E104ZFV	0.1 / Z / 25V	
C1316	ECUX1E104ZFV	0.1 / Z / 25V	
C1317	ECUX1E104ZFV	0.1 / Z / 25V	
C1318	ECUX1E104ZFV	0.1 / Z / 25V	
C1319	ECUX1H102KBV	1000p / K / 50V	
C1320	ECUX1E104ZFV	0.1 / Z / 25V	
C1321	ECUX1H102KBV	1000p / K / 50V	
C1322	ECUX1H102KBV	1000p / K / 50V	
C1323	ECUX1H102KBV	1000p / K / 50V	
C1324	ECUX1E104ZFV	0.1 / Z / 25V	
C1325	ECUX1H102KBV	1000p / K / 50V	
C1326	ECUX1E104ZFV	0.1 / Z / 25V	
C1327	ECUX1E104ZFV	0.1 / Z / 25V	
C1328	ECUX1E104ZFV	0.1 / Z / 25V	
C1329	ECUX1H102KBV	1000p / K / 50V	
C1330	ECUX1H102KBV	1000p / K / 50V	
C1331	ECUX1H102KBV	1000p / K / 50V	
C1332	ECUX1H102KBV	1000p / K / 50V	
C1333	ECUX1E104ZFV	0.1 / Z / 25V	
C1334	ECUX1E104ZFV	0.1 / Z / 25V	
C1335	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1336	ECUX1H102KBV	1000p / K / 50V	
C1337	ECUX1H102KBV	1000p / K / 50V	
C1338	ECUX1H102KBV	1000p / K / 50V	
C1339	ECUX1E104ZFV	0.1 / Z / 25V	
C1340	ECUX1E104ZFV	0.1 / Z / 25V	
C1341	ECUX1E104ZFV	0.1 / Z / 25V	
C1344	ECUX1H102KBV	1000p / K / 50V	
C1345	ECUX1H101JCV	100p / J / 50V	
C1346	ECUX1E104ZFV	0.1 / Z / 25V	
C1347	ECUX1E104ZFV	0.1 / Z / 25V	
C1348	ECUX1E104ZFV	0.1 / Z / 25V	
C1350	ECUX1H102KBV	1000p / K / 50V	
C1351	ECUX1H101JCV	100p / J / 50V	
C1352	ECUX1E104ZFV	0.1 / Z / 25V	
C1356	ECUX1H102KBV	1000p / K / 50V	
C1357	ECUX1H101JCV	100p / J / 50V	
C1358	ECUX1E104ZFV	0.1 / Z / 25V	
C1359	ECUX1E104ZFV	0.1 / Z / 25V	
C1360	ECUX1E104ZFV	0.1 / Z / 25V	
C1362	ECUX1H102KBV	1000p / K / 50V	
C1363	ECUX1H101JCV	100p / J / 50V	
C1364	ECUX1E104ZFV	0.1 / Z / 25V	
C1367	ECUX1H102KBV	1000p / K / 50V	
C1369	ECUX1H101JCV	100p / J / 50V	
C1370	ECUX1E104ZFV	0.1 / Z / 25V	
C1371	ECUX1E104ZFV	0.1 / Z / 25V	
C1374	ECUX1H102KBV	1000p / K / 50V	
C1375	ECUX1H101JCV	100p / J / 50V	
C1376	ECUX1E104ZFV	0.1 / Z / 25V	
C1377	ECUX1E104ZFV	0.1 / Z / 25V	
C1378	ECUX1E104ZFV	0.1 / Z / 25V	
C1380	ECUX1H102KBV	1000p / K / 50V	
C1381	ECUX1H101JCV	100p / J / 50V	
C1382	ECUX1E104ZFV	0.1 / Z / 25V	
C1386	ECUX1H102KBV	1000p / K / 50V	
C1387	ECUX1H101JCV	100p / J / 50V	
C1388	ECUX1E104ZFV	0.1 / Z / 25V	
C1389	ECUX1E104ZFV	0.1 / Z / 25V	
C1390	ECUX1E104ZFV	0.1 / Z / 25V	
C1392	ECUX1H102KBV	1000p / K / 50V	
C1393	ECUX1H101JCV	100p / J / 50V	
C1394	ECUX1E104ZFV	0.1 / Z / 25V	
C1397	ECUX1H102KBV	1000p / K / 50V	
C1399	ECUX1H101JCV	100p / J / 50V	
C1400	ECUX1E104ZFV	0.1 / Z / 25V	
C1401	ECUX1E104ZFV	0.1 / Z / 25V	
C1402	ECUX1E104ZFV	0.1 / Z / 25V	
C1403	ECUX1E104ZFV	0.1 / Z / 25V	
C1405	ECUX1H102KBV	1000p / K / 50V	
C1407	ECUX1H102KBV	1000p / K / 50V	
C1408	ECUX1H101JCV	100p / J / 50V	
C1411	ECUX1H101JCV	100p / J / 50V	
C1412	ECUX1H101JCV	100p / J / 50V	
C1415	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1416	ECUX1H102KBV	1000p / K / 50V	
C1417	ECUX1H102KBV	1000p / K / 50V	
C1418	ECUX1E104ZFV	0.1 / Z / 25V	
C1419	ECUX1E104ZFV	0.1 / Z / 25V	
C1420	ECUX1H101JCV	100p / J / 50V	
C1421	ECUX1E104ZFV	0.1 / Z / 25V	
C1422	ECUX1E104ZFV	0.1 / Z / 25V	
C1423	ECUX1E104ZFV	0.1 / Z / 25V	
C1424	ECUX1E104ZFV	0.1 / Z / 25V	
C1426	ECUX1H102KBV	1000p / K / 50V	
C1428	ECUX1H102KBV	1000p / K / 50V	
C1429	ECUX1H101JCV	100p / J / 50V	
C1432	ECUX1H101JCV	100p / J / 50V	
C1433	ECUX1H101JCV	100p / J / 50V	
C1436	ECUX1E104ZFV	0.1 / Z / 25V	
C1437	ECUX1H102KBV	1000p / K / 50V	
C1438	ECUX1H102KBV	1000p / K / 50V	
C1439	ECUX1E104ZFV	0.1 / Z / 25V	
C1440	ECUX1E104ZFV	0.1 / Z / 25V	
C1441	ECUX1H101JCV	100p / J / 50V	
C1444	ECUX1E104ZFV	0.1 / Z / 25V	
C1445	ECUX1E104ZFV	0.1 / Z / 25V	
C1446	ECUX1E104ZFV	0.1 / Z / 25V	
C1447	ECUX1H102KBV	1000p / K / 50V	
C1449	ECUX1H102KBV	1000p / K / 50V	
C1452	ECUX1H101JCV	100p / J / 50V	
C1453	ECUX1H101JCV	100p / J / 50V	
C1455	ECUX1H101JCV	100p / J / 50V	
C1456	ECUX1H102KBV	1000p / K / 50V	
C1457	ECUX1E104ZFV	0.1 / Z / 25V	
C1459	ECUX1E104ZFV	0.1 / Z / 25V	
C1460	ECUX1E104ZFV	0.1 / Z / 25V	
C1461	ECUX1H102KBV	1000p / K / 50V	
C1462	ECUX1H101JCV	100p / J / 50V	
C1466	ECUX1E104ZFV	0.1 / Z / 25V	
C1467	ECUX1E104ZFV	0.1 / Z / 25V	
C1468	ECUX1E104ZFV	0.1 / Z / 25V	
C1469	ECUX1H102KBV	1000p / K / 50V	
C1471	ECUX1H102KBV	1000p / K / 50V	
C1474	ECUX1H101JCV	100p / J / 50V	
C1475	ECUX1H101JCV	100p / J / 50V	
C1477	ECUX1H101JCV	100p / J / 50V	
C1478	ECUX1H102KBV	1000p / K / 50V	
C1479	ECUX1E104ZFV	0.1 / Z / 25V	
C1481	ECUX1E104ZFV	0.1 / Z / 25V	
C1482	ECUX1E104ZFV	0.1 / Z / 25V	
C1483	ECUX1H102KBV	1000p / K / 50V	
C1484	ECUX1H101JCV	100p / J / 50V	
C1491	ECUX1H102KBV	1000p / K / 50V	
C1492	ECUX1H102KBV	1000p / K / 50V	
C1493	ECUX1E104ZFV	0.1 / Z / 25V	
C1494	ECUX1E104ZFV	0.1 / Z / 25V	
C1499	ECUX1E104ZFV	0.1 / Z / 25V	
C1500	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1501	ECUX1E104ZFV	0.1 / Z / 25V	
C1502	ECUX1E104ZFV	0.1 / Z / 25V	
C1512	ECUX1E104ZFV	0.1 / Z / 25V	
C1513	ECUX1E104ZFV	0.1 / Z / 25V	
C1514	ECUX1E104ZFV	0.1 / Z / 25V	
C1516	ECUX1E104ZFV	0.1 / Z / 25V	
C1518	ECUX1E104ZFV	0.1 / Z / 25V	
C1519	ECUX1E104ZFV	0.1 / Z / 25V	
C1520	ECUX1E104ZFV	0.1 / Z / 25V	
C1521	ECUX1E104ZFV	0.1 / Z / 25V	
C1522	ECEV1HA010SR	1 / 50V	
C1523	ECUX1E104ZFV	0.1 / Z / 25V	
C1524	ECEV1CA100SR	10 / 16V	
C1528	ECUX1E104ZFV	0.1 / Z / 25V	
C1529	ECUX1E104ZFV	0.1 / Z / 25V	
C1530	ECUX1E104ZFV	0.1 / Z / 25V	
C1531	ECUX1E104ZFV	0.1 / Z / 25V	
C1532	ECUX1E104ZFV	0.1 / Z / 25V	
C1533	ECUX1E104ZFV	0.1 / Z / 25V	
C1534	ECUX1H102KBV	1000p / K / 50V	
C1535	ECUX1E104ZFV	0.1 / Z / 25V	
C1536	ECUX1E104ZFV	0.1 / Z / 25V	
C1537	ECUX1E104ZFV	0.1 / Z / 25V	
C1538	ECUX1E104ZFV	0.1 / Z / 25V	
C1539	ECUX1E104ZFV	0.1 / Z / 25V	
C1540	ECUX1E104ZFV	0.1 / Z / 25V	
C1541	ECUX1E104ZFV	0.1 / Z / 25V	
C1542	ECUX1E104ZFV	0.1 / Z / 25V	
C1543	ECUX1H102KBV	1000p / K / 50V	
C1544	ECUX1H102KBV	1000p / K / 50V	
C1545	ECUX1E104ZFV	0.1 / Z / 25V	
C1546	ECUX1E104ZFV	0.1 / Z / 25V	
C1547	ECUX1E104ZFV	0.1 / Z / 25V	
C1548	ECUX1E104ZFV	0.1 / Z / 25V	
C1549	ECUX1E104ZFV	0.1 / Z / 25V	
C1550	ECUX1E104ZFV	0.1 / Z / 25V	
C1553	ECUX1H102KBV	1000p / K / 50V	
C1554	ECUX1E104ZFV	0.1 / Z / 25V	
C1555	ECUX1E104ZFV	0.1 / Z / 25V	
C1556	ECUX1E104ZFV	0.1 / Z / 25V	
C1557	ECUX1E104ZFV	0.1 / Z / 25V	
C1558	ECUX1E104ZFV	0.1 / Z / 25V	
C1559	ECUX1E104ZFV	0.1 / Z / 25V	
C1560	ECUX1E104ZFV	0.1 / Z / 25V	
C1561	ECUX1H103KBV	0.01 / K / 50V	
C1562	ECUX1H102KBV	1000p / K / 50V	
		COILS	
L1001	BLM11A601SPT	Chip Coil	
L1002	PJLQ220H16	Bead Inductor	
L1003	PJLQ220H16	Bead Inductor	
L1004	BLM11A601SPT	Chip Coil	
L1005	BLM11A601SPT	Chip Coil	
L1006	BLM11A601SPT	Chip Coil	
L1007	BLM11A601SPT	Chip Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L1008	PJLQ220H16	Bead Inductor	
L1009	PJLQ220H16	Bead Inductor	
L1010	BLM11A601SPT	Chip Coil	
L1011	BLM11A601SPT	Chip Coil	
L1012	BLM11A601SPT	Chip Coil	
L1013	BLM11A601SPT	Chip Coil	
L1014	BLM11A601SPT	Chip Coil	
L1015	PJLQ220H16	Bead Inductor	
L1016	PJLQ220H16	Bead Inductor	
L1017	BLM11A601SPT	Chip Coil	
L1018	BLM11A601SPT	Chip Coil	
L1019	BLM11A601SPT	Chip Coil	
L1020	BLM11A601SPT	Chip Coil	
L1021	BLM11A601SPT	Chip Coil	
L1022	BLM11A601SPT	Chip Coil	
L1023	BLM11A601SPT	Chip Coil	
L1024	BLM11A601SPT	Chip Coil	
L1025	BLM11A601SPT	Chip Coil	
L1026	BLM11A601SPT	Chip Coil	
L1027	BLM11A601SPT	Chip Coil	
L1028	BLM11A601SPT	Chip Coil	
L1029	BLM11A601SPT	Chip Coil	
L1030	BLM11A601SPT	Chip Coil	
L1031	BLM11A601SPT	Chip Coil	
L1032	BLM11A601SPT	Chip Coil	
L1033	BLM11A601SPT	Chip Coil	
L1034	BLM11A601SPT	Chip Coil	
L1035	BLM11A601SPT	Chip Coil	
L1036	BLM11A601SPT	Chip Coil	
L1037	BLM11A601SPT	Chip Coil	
L1038	BLM11A601SPT	Chip Coil	
L1039	BLM11A601SPT	Chip Coil	
L1040	BLM11A601SPT	Chip Coil	
L1041	BLM11A601SPT	Chip Coil	
L1042	BLM11A601SPT	Chip Coil	
L1044	BLM11A601SPT	Chip Coil	
L1046	BLM11A601SPT	Chip Coil	
L1048	BLM11A601SPT	Chip Coil	
L1050	BLM11A601SPT	Chip Coil	
L1052	BLM11A601SPT	Chip Coil	
L1054	BLM11A601SPT	Chip Coil	
L1056	BLM11A601SPT	Chip Coil	
L1058	BLM11A601SPT	Chip Coil	
L1060	BLM11A601SPT	Chip Coil	
L1062	BLM11A601SPT	Chip Coil	
L1063	BLM11A601SPT	Chip Coil	
L1068	BLM11A601SPT	Chip Coil	
L1069	BLM11A601SPT	Chip Coil	
L1070	BLM11A601SPT	Chip Coil	
L1071	BLM11A601SPT	Chip Coil	
L1076	BLM11A601SPT	Chip Coil	
L1077	BLM11A601SPT	Chip Coil	
L1080	BLM11A601SPT	Chip Coil	
L1081	BLM11A601SPT	Chip Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L1084	BLM11A601SPT	Chip Coil	
L1085	BLM11A601SPT	Chip Coil	
L1088	BLM11A601SPT	Chip Coil	
L1089	BLM11A601SPT	Chip Coil	
L1092	BLM11A601SPT	Chip Coil	
L1093	BLM11A601SPT	Chip Coil	
L1094	PJLQ220H16	Bead Inductor	
L1095	BLM11A601SPT	Chip Coil	
L1096	BLM11A601SPT	Chip Coil	
		DIODES	
D1001	MA113	Diode	
D1002	MA113	Diode	
D1003	BR1102W	LED	
D1104	BR1102W	LED	
D1105	BR1102W	LED	
D1106	BR1102W	LED	
		TRANSISTORS	
Q1009	B1GBCFLL0002	Transistor	
Q1010	B1GBCFLL0002	Transistor	
Q1011	B1GBCFLL0002	Transistor	
Q1012	B1GBCFLL0002	Transistor	
		ICs	
IC1001	UPC29M33T	Regulator	
IC1002	C0AABA000029	IC	
IC1003	LM98511CCMT	IC	
IC1004	LM98511CCMT	IC	
IC1005	LM98511CCMT	IC	
IC1006	LM98511CCMT	IC	
IC1007	UPC29M33T	Regulator	
IC1008	C0AABA000029	IC	
IC1009	LM98511CCMT	IC	
IC1010	LM98511CCMT	IC	
IC1011	SG8002JA25MH	Oscillator	
IC1012	SLA566THF0T	IC	
IC1013	SLA566THF0T	IC	
IC1014	C3BBFC000241	SRAM	
IC1015	C3BBFC000241	SRAM	
IC1016	C3BBFC000241	SRAM	
IC1017	C3BBFC000241	SRAM	
IC1018	C3BBFC000241	SRAM	
IC1019	C3BBFC000241	SRAM	
IC1020	C3BBFC000241	SRAM	
IC1021	C3BBFC000241	SRAM	
IC1022	C3BBFC000241	SRAM	
IC1023	C3BBFC000241	SRAM	
IC1024	C3BBFC000241	SRAM	
IC1025	C3BBFC000241	SRAM	
IC1027	C3BBFC000241	SRAM	
IC1028	C3BBFC000241	SRAM	
IC1026	B3BBBC000010	IC	
IC1029	B3BBBC000010	IC	
IC1030	B3BBBC000010	IC	
IC1032	B3BBBC000010	IC	
IC1033	B3BBBC000010	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1035	B3BBBC000010	IC	
IC1040	C0ABCA000038	IC	
IC1041	C0ABCA000038	IC	
IC1042	NJM2901V	IC	
IC1043	NJM2901V	IC	
IC1044	HD74LV74AFP	IC	
IC1045	HD74LV74AFP	IC	
IC1046	M62353FP75N	IC	
IC1047	M62353FP75N	IC	
IC1048	M62353FP75N	IC	
IC1049	M62743ML	IC	
IC1050	S-93C66ADFJ	IC	
IC1051	M51953BFP	Reset IC	
IC1052	UPD5555G	IC Timer	
IC1053	HD6412670VFC	CPU	
IC1054	SN74LVCC4245	IC	
IC1055	SN74LV02ANS2	IC	
IC1056	HD74HCT08AFP	IC	
IC1057	HD74LV11AFP	IC	
IC1058	HD74LV245AFP	IC	
IC1059	HD74LV245AFP	IC	
IC1060	PJXB0001Z	IC	
IC1061	PJXB0002Z	IC	
IC1062	CY7C199-15VC	SRAM	
IC1063	CY7C199-15VC	SRAM	
IC1064	HD74HCT04AFP	IC	
IC1065	SM530AYBD	IC	
OTHERS			
CN1001	K1KAJ0B00003	Connector 180P	
CN1002	PBB12B-PH	Connector 12P	
CN1003	B13B-PH-K-S	Connector 13P	
CN1004	LPC-6M2	Connector 6P	
CN1005	LPC-30M2	Connector 30p	
X1001	CSTCV16.50MX	Oscillator	
	PJMYX0001Z	Heat Sink	
	PBHMA0143Z	Plate	
	PJHXB0005Z	Sheet	
	XTW3+U6LFX	Screw	

15.2. I/F Board (SCSI Board)

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R3001	ERJ3GEYJ103	10k / J / 1/16W	
R3002	ERJ3GEYJ102	1k / J / 1/16W	
R3003	ERJ3GEYJ103	10k / J / 1/16W	
R3004	SMD125-2	Poly Switch	
R3011	ERJ3GEYJ103	10k / J / 1/16W	
R3015	ERJ3GEYJ103	10k / J / 1/16W	
R3016	ERJ3GEYJ103	10k / J / 1/16W	
R3018	ERJ3GEYJ100	10 / J / 1/16W	
R3019	ERJ3GEYJ100	10 / J / 1/16W	
R3020	ERJ3GEYJ103	10k / J / 1/16W	
R3021	ERJ3GEYJ220	22 / J / 1/16W	
R3022	ERJ3GEYJ103	10k / J / 1/16W	
R3023	ERJ3GEYJ100	10 / J / 1/16W	
R3026	ERJ3GEYJ100	10 / J / 1/16W	
R3030	ERJ3GEYJ100	10 / J / 1/16W	
R3032	ERJ3GEYJ100	10 / J / 1/16W	
R3042	ERJ6ENF3011	3.01k / F / 1/10W	
R3043	ERJ3GEYJ103	10k / J / 1/16W	
R3044	ERJ3GEYJ103	10k / J / 1/16W	
R3047	ERJ3GEYJ220	22 / J / 1/16W	
R3049	ERJ3GEY0R00	0-ohm Jumper	
R3051	ERJ3GEY0R00	0-ohm Jumper	
R3052	ERJ3GEYJ103	10k / J / 1/16W	
R3055	ERJ3GEYJ220	22 / J / 1/16W	
R3056	ERJ3GEYJ220	22 / J / 1/16W	
R3057	ERJ3GEYJ220	22 / J / 1/16W	
R3060	ERJ3GEYJ103	10k / J / 1/16W	
R3064	ERJ3GEYJ220	22 / J / 1/16W	
R3065	ERJ3GEYJ220	22 / J / 1/16W	
R3066	ERJ3GEYJ103	10k / J / 1/16W	
R3070	ERJ3GEY0R00	0-ohm Jumper	
R3074	ERJ3GEYJ152	1.5k / J / 1/16W	
R3076	ERJ3GEYJ220	22 / J / 1/16W	
R3077	ERJ3GEYJ220	22 / J / 1/16W	
R3078	ERJ3GEYJ100	10 / J / 1/16W	
R3079	ERJ3GEYJ100	10 / J / 1/16W	
R3080	ERJ3GEY0R00	0-ohm Jumper	
R3081	ERJ3GEYJ100	10 / J / 1/16W	
R3082	ERJ3GEYJ100	10 / J / 1/16W	
R3083	ERJ3GEYJ100	10 / J / 1/16W	
R3084	ERJ3GEYJ100	10 / J / 1/16W	
R3085	ERJ3GEYJ100	10 / J / 1/16W	
R3086	ERJ3GEYJ100	10 / J / 1/16W	
R3087	ERJ3GEYJ100	10 / J / 1/16W	
R3089	ERJ3GEYJ100	10 / J / 1/16W	
R3092	ERJ3GEYJ472	4.7k / J / 1/16W	
R3093	ERJ3GEYJ100	10 / J / 1/16W	
R3094	ERJ3GEYJ100	10 / J / 1/16W	
R3095	ERJ3GEYJ100	10 / J / 1/16W	
R3096	ERJ3GEYJ100	10 / J / 1/16W	
R3097	ERJ3GEYJ100	10 / J / 1/16W	
R3098	ERJ3GEYJ100	10 / J / 1/16W	
R3099	ERJ3GEY0R00	0-ohm Jumper	

Ref. No.	Part No.	Part Name & Description	Remarks
R3100	ERJ3GEY0R00	0-ohm Jumper	
R3101	ERJ3GEYJ152	1.5k / J / 1/16W	
R3102	ERJ3GEYJ101	100 / J / 1/16W	
R3103	ERJ3GEYJ100	10 / J / 1/16W	
R3104	ERJ3GEYJ100	10 / J / 1/16W	
R3105	ERJ3GEYJ100	10 / J / 1/16W	
R3106	ERJ3GEYJ100	10 / J / 1/16W	
R3107	ERJ3GEY0R00	0-ohm Jumper	
R3108	ERJ3GEYJ100	10 / J / 1/16W	
R3109	ERJ3GEYJ100	10 / J / 1/16W	
R3110	ERJ3GEYJ100	10 / J / 1/16W	
R3111	ERJ3GEYJ100	10 / J / 1/16W	
R3112	ERJ3GEYJ100	10 / J / 1/16W	
R3113	ERJ3GEYJ100	10 / J / 1/16W	
R3114	ERJ3GEYJ472	4.7k / J / 1/16W	
R3115	ERJ3GEYJ472	4.7k / J / 1/16W	
R3116	ERJ3GEYJ103	10k / J / 1/16W	
R3120	ERJ3GEYJ103	10k / J / 1/16W	
R3122	ERJ3GEY0R00	0-ohm Jumper	
R3124	ERJ3GEY0R00	0-ohm Jumper	
R3125	ERJ3GEY0R00	0-ohm Jumper	
R3127	ERJ3GEY0R00	0-ohm Jumper	
R3129	ERJ3GEY0R00	0-ohm Jumper	
R3130	ERJ3GEYJ101	100 / J / 1/16W	
R3131	ERJ3GEY0R00	0-ohm Jumper	
R3132	ERJ3GEYJ100	10 / J / 1/16W	
R3133	ERJ3GEYJ100	10 / J / 1/16W	
R3134	ERJ3GEYJ100	10 / J / 1/16W	
R3135	ERJ3GEYJ101	100 / J / 1/16W	
R3137	ERJ3GEYJ220	22 / J / 1/16W	
R3138	ERJ3GEY0R00	0-ohm Jumper	
R3139	ERJ3GEY0R00	0-ohm Jumper	
R3140	ERJ3GEY0R00	0-ohm Jumper	
R3145	ERJ3GEY0R00	0-ohm Jumper	
R3146	ERJ3GEY0R00	0-ohm Jumper	
R3147	ERJ3GEY0R00	0-ohm Jumper	
R3148	ERJ3GEYJ100	10 / J / 1/16W	
R3149	ERJ3GEYJ100	10 / J / 1/16W	
R3151	ERJ3GEY0R00	0-ohm Jumper	
R3152	ERJ3GEY0R00	0-ohm Jumper	
R3154	ERJ3GEY0R00	0-ohm Jumper	
R3155	ERJ3GEY0R00	0-ohm Jumper	
R3156	ERJ3GEY0R00	0-ohm Jumper	
R3157	ERJ3GEY0R00	0-ohm Jumper	
R3159	ERJ3GEYJ100	10 / J / 1/16W	
R3163	ERJ3GEYJ103	10k / J / 1/16W	
R3170	ERJ3GEYJ103	10k / J / 1/16W	
R3175	ERJ3GEYJ103	10k / J / 1/16W	
R3176	ERJ3GEY0R00	0-ohm Jumper	
R3177	ERJ3GEYJ220	22 / J / 1/16W	
R3178	ERJ3GEY0R00	0-ohm Jumper	
R3182	ERJ3GEYJ220	22 / J / 1/16W	
R3183	ERJ3GEY0R00	0-ohm Jumper	
R3185	ERJ3GEYJ220	22 / J / 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3186	ERJ3GEY0R00	0-ohm Jumper	
R3187	ERJ3GEYJ103	10k / J / 1/16W	
R3190	ERJ3GEYJ103	10k / J / 1/16W	
R3191	ERJ3GEYJ103	10k / J / 1/16W	
R3193	ERJ3GEYJ103	10k / J / 1/16W	
R3194	ERJ3GEYJ103	10k / J / 1/16W	
R3195	ERJ3GEYJ220	22 / J / 1/16W	
R3196	ERJ3GEYJ220	22 / J / 1/16W	
R3197	ERJ3GEYJ220	22 / J / 1/16W	
R3198	ERJ3GEYJ220	22 / J / 1/16W	
R3199	ERJ3GEYJ220	22 / J / 1/16W	
R3205	ERJ3GEYJ220	22 / J / 1/16W	
R3206	ERJ3GEYJ220	22 / J / 1/16W	
R3207	ERJ3GEYJ220	22 / J / 1/16W	
R3208	ERJ3GEYJ220	22 / J / 1/16W	
R3209	ERJ3GEYJ220	22 / J / 1/16W	
R3210	ERJ3GEYJ220	22 / J / 1/16W	
R3212	ERJ3GEYJ102	1k / J / 1/16W	
R3213	ERJ3GEYJ220	22 / J / 1/16W	
R3214	ERJ3GEYJ220	22 / J / 1/16W	
R3215	ERJ3GEYJ220	22 / J / 1/16W	
R3217	ERJ3GEYJ220	22 / J / 1/16W	
R3218	ERJ3GEYJ220	22 / J / 1/16W	
R3219	ERJ3GEYJ220	22 / J / 1/16W	
R3220	ERJ3GEYJ220	22 / J / 1/16W	
R3221	ERJ3GEYJ220	22 / J / 1/16W	
R3222	ERJ3GEYJ220	22 / J / 1/16W	
R3223	ERJ3GEYJ473	47k / J / 1/16W	
R3224	ERJ3GEYJ473	47k / J / 1/16W	
R3228	ERJ3GEYJ473	47k / J / 1/16W	
R3229	ERJ3GEYJ473	47k / J / 1/16W	
R3230	ERJ3GEYJ102	1k / J / 1/16W	
R3235	ERJ3GEYJ220	22 / J / 1/16W	
R3237	ERJ3GEYJ220	22 / J / 1/16W	
R3238	ERJ3GEYJ220	22 / J / 1/16W	
R3241	ERJ3GEY0R00	0-ohm Jumper	
R3242	ERJ3GEYJ103	10k / J / 1/16W	
R3245	ERJ3GEYJ220	22 / J / 1/16W	
R3258	ERJ3GEYJ220	22 / J / 1/16W	
R3259	ERJ3GEYJ220	22 / J / 1/16W	
R3260	ERJ3GEYJ220	22 / J / 1/16W	
R3261	ERJ3GEYJ102	1k / J / 1/16W	
R3263	ERJ3GEY0R00	0-ohm Jumper	
R3264	ERJ3GEYJ103	10k / J / 1/16W	
R3265	ERJ3GEYJ220	22 / J / 1/16W	
R3266	ERJ3GEYJ220	22 / J / 1/16W	
R3267	ERJ3GEYJ220	22 / J / 1/16W	
R3268	ERJ3GEYJ220	22 / J / 1/16W	
R3271	ERJ3GEYJ100	10 / J / 1/16W	
R3272	ERJ3GEYJ220	22 / J / 1/16W	
R3274	ERJ3GEYJ103	10k / J / 1/16W	
R3275	ERJ3GEYJ103	10k / J / 1/16W	
R3276	ERJ3GEYJ223	22k / J / 1/16W	
R3277	ERJ3GEYJ223	22k / J / 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3278	ERJ3GEY0R00	0-ohm Jumper	
R3280	ERJ3GEY0R00	0-ohm Jumper	
R3282	ERJ3GEY0R00	0-ohm Jumper	
R3284	ERJ3GEYJ103	10k / J / 1/16W	
R3285	ERJ3GEYJ103	10k / J / 1/16W	
R3286	ERJ3GEYJ103	10k / J / 1/16W	
R3287	ERJ3GEYJ472	4.7k / J / 1/16W	
R3288	ERJ3GEYJ472	4.7k / J / 1/16W	
R3290	ERJ3GEY0R00	0-ohm Jumper	
R3291	ERJ3GEYJ103	10k / J / 1/16W	
R3292	ERJ3GEYJ103	10k / J / 1/16W	
R3294	ERJ3GEYJ220	22 / J / 1/16W	
R3296	ERJ3GEYJ103	10k / J / 1/16W	
R3298	ERJ3GEYJ473	47k / J / 1/16W	
R3299	ERJ3GEYJ472	4.7k / J / 1/16W	
R3300	ERJ3GEYJ472	4.7k / J / 1/16W	
R3301	ERJ3GEYJ220	22 / J / 1/16W	
R3302	ERJ3GEYJ220	22 / J / 1/16W	
R3303	ERJ3GEYJ472	4.7k / J / 1/16W	
R3304	ERJ3GEYJ472	4.7k / J / 1/16W	
R3305	ERJ3GEYJ472	4.7k / J / 1/16W	
R3306	ERJ3GEYJ472	4.7k / J / 1/16W	
R3307	ERJ3GEYJ220	22 / J / 1/16W	
R3308	ERJ3GEYJ102	1k / J / 1/16W	
R3309	ERJ3GEY0R00	0-ohm Jumper	
R3310	ERJ3GEY0R00	0-ohm Jumper	
R3311	ERJ3GEY0R00	0-ohm Jumper	
R3312	ERJ3GEYJ333	33k / J / 1/16W	
R3313	ERJ3GEYJ103	10k / J / 1/16W	
R3314	ERJ3GEYJ103	10k / J / 1/16W	
Z3001	MNR14E0AJ220	Resistor Array	
Z3002	MNR14E0AJ220	Resistor Array	
Z3003	MNR14E0AJ220	Resistor Array	
Z3004	MNR14E0AJ220	Resistor Array	
Z3005	MNR14E0AJ220	Resistor Array	
Z3006	MNR14E0AJ220	Resistor Array	
Z3007	MNR14E0AJ220	Resistor Array	
Z3008	MNR14E0AJ220	Resistor Array	
Z3009	PJRAMNR14473	Resistor Array	
Z3010	MNR14E0AJ220	Resistor Array	
Z3011	PJRAMNR14473	Resistor Array	
Z3012	MNR14E0AJ220	Resistor Array	
Z3013	MNR14E0AJ100	Resistor Array	
Z3014	PJRAMNR14473	Resistor Array	
Z3015	MNR14E0AJ220	Resistor Array	
Z3016	MNR14E0AJ100	Resistor Array	
Z3017	PJRAMNR14473	Resistor Array	
Z3018	MNR14E0AJ220	Resistor Array	
Z3019	MNR14E0AJ100	Resistor Array	
Z3020	MNR14E0AJ100	Resistor Array	
Z3021	MNR14E0AJ100	Resistor Array	
Z3022	MNR14E0AJ100	Resistor Array	
Z3023	MNR14E0AJ100	Resistor Array	
Z3024	MNR14E0AJ100	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z3025	MNR14E0AJ100	Resistor Array	
Z3026	MNR14E0AJ100	Resistor Array	
Z3027	MNR14E0AJ100	Resistor Array	
Z3028	MNR14E0AJ100	Resistor Array	
Z3029	MNR14E0AJ100	Resistor Array	
Z3030	MNR14E0AJ100	Resistor Array	
Z3031	MNR14E0AJ100	Resistor Array	
Z3032	MNR14E0AJ100	Resistor Array	
Z3033	MNR14E0AJ100	Resistor Array	
Z3034	MNR14E0AJ100	Resistor Array	
Z3035	MNR14E0AJ100	Resistor Array	
Z3036	MNR14E0AJ100	Resistor Array	
Z3037	MNR14E0AJ100	Resistor Array	
Z3038	MNR14E0AJ100	Resistor Array	
Z3039	MNR14E0AJ100	Resistor Array	
Z3040	MNR14E0AJ220	Resistor Array	
Z3041	MNR14E0AJ100	Resistor Array	
Z3042	MNR14E0AJ220	Resistor Array	
Z3043	MNR14E0AJ100	Resistor Array	
Z3044	MNR14E0AJ100	Resistor Array	
Z3050	MNR14E0AJ220	Resistor Array	
Z3051	MNR14E0AJ220	Resistor Array	
Z3052	MNR14E0AJ220	Resistor Array	
Z3053	MNR14E0AJ220	Resistor Array	
Z3054	MNR14E0AJ220	Resistor Array	
Z3055	MNR14E0AJ220	Resistor Array	
Z3056	MNR14E0AJ220	Resistor Array	
Z3057	MNR14E0AJ100	Resistor Array	
Z3058	MNR14E0AJ100	Resistor Array	
Z3059	MNR14E0AJ100	Resistor Array	
Z3060	MNR14E0AJ100	Resistor Array	
Z3061	MNR14E0AJ100	Resistor Array	
Z3062	MNR14E0AJ100	Resistor Array	
Z3063	MNR14E0AJ100	Resistor Array	
Z3064	MNR14E0AJ100	Resistor Array	
Z3065	MNR14E0AJ100	Resistor Array	
Z3066	MNR14E0AJ100	Resistor Array	
Z3067	MNR14E0AJ100	Resistor Array	
Z3068	MNR14E0AJ100	Resistor Array	
Z3069	MNR14E0AJ100	Resistor Array	
Z3070	MNR14E0AJ100	Resistor Array	
Z3071	MNR14E0AJ100	Resistor Array	
Z3072	MNR14E0AJ100	Resistor Array	
Z3073	MNR14E0AJ100	Resistor Array	
Z3074	MNR14E0AJ100	Resistor Array	
Z3075	MNR14E0AJ100	Resistor Array	
Z3076	MNR14E0AJ100	Resistor Array	
Z3077	MNR14E0AJ100	Resistor Array	
Z3078	MNR14E0AJ100	Resistor Array	
Z3079	MNR14E0AJ100	Resistor Array	
Z3080	MNR14E0AJ100	Resistor Array	
Z3081	MNR14E0AJ100	Resistor Array	
Z3082	MNR14E0AJ100	Resistor Array	
Z3083	MNR14E0AJ100	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z3084	MNR14E0AJ100	Resistor Array	
Z3085	MNR14E0AJ100	Resistor Array	
Z3086	MNR14E0AJ100	Resistor Array	
Z3087	MNR14E0AJ100	Resistor Array	
Z3088	MNR14E0AJ100	Resistor Array	
Z3089	MNR14E0AJ100	Resistor Array	
Z3090	MNR14E0AJ100	Resistor Array	
Z3091	MNR14E0AJ100	Resistor Array	
Z3092	PJRAMNR14473	Resistor Array	
Z3093	PJRAMNR14473	Resistor Array	
Z3094	MNR14E0AJ220	Resistor Array	
Z3095	MNR14E0AJ220	Resistor Array	
Z3096	MNR14E0AJ220	Resistor Array	
Z3097	MNR14E0AJ220	Resistor Array	
Z3098	MNR14E0AJ220	Resistor Array	
Z3099	MNR14E0AJ220	Resistor Array	
Z3100	MNR14E0AJ220	Resistor Array	
Z3101	MNR14E0AJ220	Resistor Array	
Z3102	MNR14E0AJ220	Resistor Array	
Z3103	MNR14E0AJ220	Resistor Array	
Z3104	MNR14E0AJ220	Resistor Array	
Z3105	MNR14E0AJ220	Resistor Array	
Z3106	PJRAMNR14473	Resistor Array	
Z3107	D1H822140005	Resistor Array	
Z3108	PJRAMNR14473	Resistor Array	
Z3109	PJRAMNR14473	Resistor Array	
Z3110	PJRAMNR14473	Resistor Array	
Z3111	PJRAMNR14473	Resistor Array	
Z3113	MNR14E0AJ220	Resistor Array	
Z3114	MNR14E0AJ220	Resistor Array	
Z3115	MNR14E0AJ220	Resistor Array	
Z3116	MNR14E0AJ220	Resistor Array	
Z3117	MNR14E0AJ220	Resistor Array	
Z3118	PJRAMNR14473	Resistor Array	
Z3119	PJRAMNR14473	Resistor Array	
Z3120	PJRAMNR14473	Resistor Array	
Z3121	PJRAMNR14473	Resistor Array	
Z3122	MNR14E0AJ220	Resistor Array	
Z3123	MNR14E0AJ220	Resistor Array	
Z3124	PJRAMNR14473	Resistor Array	
Z3125	MNR14E0AJ220	Resistor Array	
Z3126	MNR14E0AJ220	Resistor Array	
Z3127	MNR14E0AJ220	Resistor Array	
Z3128	MNR14E0AJ220	Resistor Array	
Z3129	MNR14E0AJ220	Resistor Array	
Z3130	MNR14E0AJ220	Resistor Array	
Z3131	MNR14E0AJ220	Resistor Array	
Z3132	MNR14E0AJ220	Resistor Array	
Z3133	MNR14E0AJ220	Resistor Array	
Z3134	MNR14E0AJ220	Resistor Array	
Z3135	MNR14E0AJ220	Resistor Array	
Z3136	MNR14E0AJ220	Resistor Array	
Z3137	MNR14E0AJ220	Resistor Array	
Z3138	MNR14E0AJ220	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z3139	MNR14E0AJ220	Resistor Array	
Z3140	MNR14E0AJ220	Resistor Array	
Z3141	MNR14E0AJ220	Resistor Array	
Z3142	MNR14E0AJ220	Resistor Array	
Z3143	MNR14E0AJ220	Resistor Array	
Z3144	MNR14E0AJ220	Resistor Array	
Z3145	MNR14E0AJ220	Resistor Array	
		CAPACITORS	
C3001	ECUX1H101JCV	100p / J / 50V	
C3003	ECEV1AA101SP	100 / 10V	
C3004	ECUX1H101JCV	100p / J / 50V	
C3009	ECUX1E104ZFV	0.1 / Z / 25V	
C3010	ECUX1H102KBV	1000p / K / 50V	
C3011	ECUX1H681JCV	680p / J / 50V	
C3014	ECUX1E104ZFV	0.1 / Z / 25V	
C3016	ECUX1H102KBV	1000p / K / 50V	
C3019	ECEV1CA100SR	10 / 16V	
C3020	ECUX1E104ZFV	0.1 / Z / 25V	
C3021	ECUX1H102KBV	1000p / K / 50V	
C3022	ECUX1E104ZFV	0.1 / Z / 25V	
C3023	ECEV1CA100SR	10 / 16V	
C3024	ECUX1H102KBV	1000p / K / 50V	
C3025	ECUX1E104ZFV	0.1 / Z / 25V	
C3026	ECUX1E104ZFV	0.1 / Z / 25V	
C3027	ECUX1H102KBV	1000p / K / 50V	
C3028	ECUX1H102KBV	1000p / K / 50V	
C3029	ECUX1E104ZFV	0.1 / Z / 25V	
C3030	ECUX1E104ZFV	0.1 / Z / 25V	
C3031	ECUX1H102KBV	1000p / K / 50V	
C3032	ECUX1E104ZFV	0.1 / Z / 25V	
C3033	ECUX1E104ZFV	0.1 / Z / 25V	
C3034	ECUX1E104ZFV	0.1 / Z / 25V	
C3035	ECUX1H102KBV	1000p / K / 50V	
C3036	ECUX1E104ZFV	0.1 / Z / 25V	
C3037	ECUX1E104ZFV	0.1 / Z / 25V	
C3038	ECUX1E104ZFV	0.1 / Z / 25V	
C3039	ECUX1H101JCV	100p / J / 50V	
C3040	ECUX1H102KBV	1000p / K / 50V	
C3041	ECUX1E104ZFV	0.1 / Z / 25V	
C3042	ECUX1H101JCV	100p / J / 50V	
C3043	ECUX1E104ZFV	0.1 / Z / 25V	
C3044	ECUX1H102KBV	1000p / K / 50V	
C3045	ECUX1E104ZFV	0.1 / Z / 25V	
C3046	ECUX1H101JCV	100p / J / 50V	
C3047	ECUX1E104ZFV	0.1 / Z / 25V	
C3048	ECUX1E104ZFV	0.1 / Z / 25V	
C3049	ECUX1E104ZFV	0.1 / Z / 25V	
C3050	ECUX1H102KBV	1000p / K / 50V	
C3051	ECUX1E104ZFV	0.1 / Z / 25V	
C3052	ECUX1E104ZFV	0.1 / Z / 25V	
C3053	ECUX1E104ZFV	0.1 / Z / 25V	
C3054	ECUX1E104ZFV	0.1 / Z / 25V	
C3055	ECUX1H101JCV	100p / J / 50V	
C3056	ECUX1H101JCV	100p / J / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3057	ECUX1E104ZFV	0.1 / Z / 25V	
C3058	ECUX1E104ZFV	0.1 / Z / 25V	
C3059	ECUX1E104ZFV	0.1 / Z / 25V	
C3060	ECUX1H101JCV	100p / J / 50V	
C3061	ECUX1H101JCV	100p / J / 50V	
C3062	ECUX1H101JCV	100p / J / 50V	
C3063	ECUX1E104ZFV	0.1 / Z / 25V	
C3064	ECUX1E104ZFV	0.1 / Z / 25V	
C3065	ECUX1E104ZFV	0.1 / Z / 25V	
C3066	ECUX1E104ZFV	0.1 / Z / 25V	
C3067	ECUX1H101JCV	100p / J / 50V	
C3068	ECUX1H101JCV	100p / J / 50V	
C3069	ECUX1H101JCV	100p / J / 50V	
C3070	ECUX1E104ZFV	0.1 / Z / 25V	
C3071	ECUX1E104ZFV	0.1 / Z / 25V	
C3072	ECUX1H101JCV	100p / J / 50V	
C3073	ECUX1H101JCV	100p / J / 50V	
C3074	ECUX1E104ZFV	0.1 / Z / 25V	
C3075	ECUX1E104ZFV	0.1 / Z / 25V	
C3076	ECUX1H101JCV	100p / J / 50V	
C3077	ECUX1H101JCV	100p / J / 50V	
C3078	ECUX1E104ZFV	0.1 / Z / 25V	
C3079	ECUX1H331JCV	330p / J / 50V	
C3080	ECUX1H101JCV	100p / J / 50V	
C3081	ECUX1E104ZFV	0.1 / Z / 25V	
C3082	ECUX1H101JCV	100p / J / 50V	
C3083	ECUX1E104ZFV	0.1 / Z / 25V	
C3084	ECUX1H101JCV	100p / J / 50V	
C3085	ECUX1E104ZFV	0.1 / Z / 25V	
C3086	ECUX1H101JCV	100p / J / 50V	
C3087	ECUX1E104ZFV	0.1 / Z / 25V	
C3088	ECUX1H101JCV	100p / J / 50V	
C3089	ECUX1E104ZFV	0.1 / Z / 25V	
C3090	ECUX1H101JCV	100p / J / 50V	
C3091	ECUX1E104ZFV	0.1 / Z / 25V	
C3092	ECUX1H101JCV	100p / J / 50V	
C3093	ECUX1H101JCV	100p / J / 50V	
C3094	ECUX1E104ZFV	0.1 / Z / 25V	
C3096	ECUX1E104ZFV	0.1 / Z / 25V	
C3098	ECUX1H102KBV	1000p / K / 50V	
C3099	ECUX1H102KBV	1000p / K / 50V	
C3100	ECUX1E104ZFV	0.1 / Z / 25V	
C3101	ECUX1E104ZFV	0.1 / Z / 25V	
C3102	ECUX1H101JCV	100p / J / 50V	
C3103	ECUX1H101JCV	100p / J / 50V	
C3106	ECUX1E104ZFV	0.1 / Z / 25V	
C3107	ECUX1E104ZFV	0.1 / Z / 25V	
C3108	ECUX1H102KBV	1000p / K / 50V	
C3109	ECUX1H102KBV	1000p / K / 50V	
C3110	ECUX1E104ZFV	0.1 / Z / 25V	
C3111	ECUX1E104ZFV	0.1 / Z / 25V	
C3112	ECUX1E104ZFV	0.1 / Z / 25V	
C3113	ECEV1AA101SP	100 / 10V	
C3114	ECEV1AA101SP	100 / 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3115	ECUX1E104ZFV	0.1 / Z / 25V	
C3116	ECUX1H101JCV	100p / J / 50V	
C3117	ECUX1H101JCV	100p / J / 50V	
C3118	ECUX1E104ZFV	0.1 / Z / 25V	
C3119	ECUX1E104ZFV	0.1 / Z / 25V	
C3120	ECUX1E104ZFV	0.1 / Z / 25V	
C3121	ECUX1E104ZFV	0.1 / Z / 25V	
C3122	ECUX1H101JCV	100p / J / 50V	
C3123	ECUX1H101JCV	100p / J / 50V	
C3124	ECUX1H101JCV	100p / J / 50V	
C3125	ECUX1H101JCV	100p / J / 50V	
C3126	ECUX1E104ZFV	0.1 / Z / 25V	
C3127	ECUX1E104ZFV	0.1 / Z / 25V	
C3128	ECUX1E104ZFV	0.1 / Z / 25V	
C3129	ECUX1H101JCV	100p / J / 50V	
C3130	ECUX1H101JCV	100p / J / 50V	
C3131	ECUX1H101JCV	100p / J / 50V	
C3132	ECUX1E104ZFV	0.1 / Z / 25V	
C3133	ECUX1E104ZFV	0.1 / Z / 25V	
C3134	ECUX1H101JCV	100p / J / 50V	
C3135	ECUX1H101JCV	100p / J / 50V	
C3136	ECUX1E104ZFV	0.1 / Z / 25V	
C3137	ECUX1E104ZFV	0.1 / Z / 25V	
C3138	ECUX1H101JCV	100p / J / 50V	
C3139	ECUX1H101JCV	100p / J / 50V	
C3140	ECUX1E104ZFV	0.1 / Z / 25V	
C3141	ECUX1H331JCV	330p / J / 50V	
C3142	ECUX1H102KBV	1000p / K / 50V	
C3143	ECUX1H102KBV	1000p / K / 50V	
C3144	ECUX1H101JCV	100p / J / 50V	
C3145	ECUX1H101JCV	100p / J / 50V	
C3146	ECUX1E104ZFV	0.1 / Z / 25V	
C3147	ECUX1H101JCV	100p / J / 50V	
C3148	ECUX1E104ZFV	0.1 / Z / 25V	
C3149	ECUX1E104ZFV	0.1 / Z / 25V	
C3150	ECUX1E104ZFV	0.1 / Z / 25V	
C3151	ECEV1AA101SP	100 / 10V	
C3152	ECUX1H101JCV	100p / J / 50V	
C3153	ECUX1E104ZFV	0.1 / Z / 25V	
C3154	ECUX1H101JCV	100p / J / 50V	
C3156	ECUX1H101JCV	100p / J / 50V	
C3157	ECUX1E104ZFV	0.1 / Z / 25V	
C3158	ECUX1H101JCV	100p / J / 50V	
C3159	ECUX1E104ZFV	0.1 / Z / 25V	
C3160	ECUX1H101JCV	100p / J / 50V	
C3161	ECUX1E104ZFV	0.1 / Z / 25V	
C3162	ECUX1H101JCV	100p / J / 50V	
C3163	ECUX1E104ZFV	0.1 / Z / 25V	
C3164	ECUX1H101JCV	100p / J / 50V	
C3166	ECUX1H101JCV	100p / J / 50V	
C3167	ECUX1E104ZFV	0.1 / Z / 25V	
C3168	ECUX1H101JCV	100p / J / 50V	
C3170	ECEV1AA101SP	100 / 10V	
C3171	ECUX1H101JCV	100p / J / 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3172	ECUX1E104ZFV	0.1 / Z / 25V	
C3173	ECUX1H101JCV	100p / J / 50V	
C3174	ECUX1E104ZFV	0.1 / Z / 25V	
C3175	ECUX1H101JCV	100p / J / 50V	
C3176	ECUX1E104ZFV	0.1 / Z / 25V	
C3177	ECUX1H101JCV	100p / J / 50V	
C3178	ECUX1E104ZFV	0.1 / Z / 25V	
C3179	ECUX1H101JCV	100p / J / 50V	
C3180	ECUX1E104ZFV	0.1 / Z / 25V	
C3181	ECUX1H101JCV	100p / J / 50V	
C3182	ECUX1E104ZFV	0.1 / Z / 25V	
C3183	ECUX1H101JCV	100p / J / 50V	
C3184	ECUX1H101JCV	100p / J / 50V	
C3185	ECUX1E104ZFV	0.1 / Z / 25V	
C3186	ECUX1H101JCV	100p / J / 50V	
C3187	ECUX1E104ZFV	0.1 / Z / 25V	
C3188	ECEV1AA101SP	100 / 10V	
C3189	ECUX1H470JCV	47p / J / 50V	
C3191	ECUX1H101JCV	100p / J / 50V	
C3192	ECUX1H101JCV	100p / J / 50V	
C3193	ECUX1E104ZFV	0.1 / Z / 25V	
C3194	ECUX1E104ZFV	0.1 / Z / 25V	
C3195	ECUX1E104ZFV	0.1 / Z / 25V	
C3196	ECUX1H101JCV	100p / J / 50V	
C3197	ECUX1E104ZFV	0.1 / Z / 25V	
C3198	ECUX1H470JCV	47p / J / 50V	
C3199	ECUX1H470JCV	47p / J / 50V	
C3200	ECUX1H101JCV	100p / J / 50V	
C3201	ECUX1H101JCV	100p / J / 50V	
C3202	ECUX1E104ZFV	0.1 / Z / 25V	
C3203	ECUX1E104ZFV	0.1 / Z / 25V	
C3204	ECEV1EA4R7SR	4.7 / 25V	
C3205	ECEV1EA4R7SR	4.7 / 25V	
C3206	ECEV1EA4R7SR	4.7 / 25V	
C3207	ECUV1H222KBV	2200p / K / 50V	
C3208	ECUX1C224ZFV	0.22 / Z / 16V	
C3209	ECUX1H120JCV	12p / J / 50V	
C3210	ECUX1H101JCV	100p / J / 50V	
C3211	ECEV1AA101SP	100 / 10V	
C3212	ECUX1E104ZFV	0.1 / Z / 25V	
C3213	ECUX1E104ZFV	0.1 / Z / 25V	
C3214	ECUX1H102KBV	1000p / K / 50V	
C3215	ECUX1H101JCV	100p / J / 50V	
C3218	ECUX1H101JCV	100p / J / 50V	
C3219	ECUX1H101JCV	100p / J / 50V	
C3220	ECUX1H101JCV	100p / J / 50V	
C3221	ECUX1E104ZFV	0.1 / Z / 25V	
C3224	ECUX1H101JCV	100p / J / 50V	
C3225	ECUX1E104ZFV	0.1 / Z / 25V	
C3226	ECUX1E104ZFV	0.1 / Z / 25V	
C3227	ECUX1H101JCV	100p / J / 50V	
C3228	ECUX1E104ZFV	0.1 / Z / 25V	
C3229	ECUX1H101JCV	100p / J / 50V	
C3230	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3231	ECEV1AA101SP	100 / 10V	
C3232	ECUX1H101JCV	100p / J / 50V	
C3234	ECUX1E104ZFV	0.1 / Z / 25V	
C3236	ECUX1E104ZFV	0.1 / Z / 25V	
C3237	ECUX1H101JCV	100p / J / 50V	
C3238	ECUX1H101JCV	100p / J / 50V	
C3239	ECUX1H101JCV	100p / J / 50V	
C3240	ECUX1H101JCV	100p / J / 50V	
C3241	ECUX1E104ZFV	0.1 / Z / 25V	
C3242	ECUX1E104ZFV	0.1 / Z / 25V	
C3243	ECUX1E104ZFV	0.1 / Z / 25V	
C3244	ECUX1E104ZFV	0.1 / Z / 25V	
C3245	ECUX1H101JCV	100p / J / 50V	
C3246	ECUX1H101JCV	100p / J / 50V	
C3247	ECUX1E104ZFV	0.1 / Z / 25V	
C3248	ECUX1E104ZFV	0.1 / Z / 25V	
C3250	ECUX1H102KBV	1000p / K / 50V	
C3252	ECUX1H102KBV	1000p / K / 50V	
C3253	ECUX1E104ZFV	0.1 / Z / 25V	
C3254	ECUX1E104ZFV	0.1 / Z / 25V	
C3255	ECUX1E104ZFV	0.1 / Z / 25V	
C3256	ECUX1H101JCV	100p / J / 50V	
C3257	ECUX1E104ZFV	0.1 / Z / 25V	
C3258	ECUX1H101JCV	100p / J / 50V	
C3259	ECUX1E104ZFV	0.1 / Z / 25V	
C3289	ECEV1EA4R7SR	4.7 / 25V	
C3290	ECEV1AA101SP	100 / 10V	
C3291	ECUX1H101JCV	100p / J / 50V	
C3292	ECUX1E104ZFV	0.1 / Z / 25V	
C3293	ECUX1E104ZFV	0.1 / Z / 25V	
C3294	ECUX1H101JCV	100p / J / 50V	
C3295	ECUX1H101JCV	100p / J / 50V	
C3296	ECUX1E104ZFV	0.1 / Z / 25V	
C3297	ECUX1H101JCV	100p / J / 50V	
C3298	ECUX1E104ZFV	0.1 / Z / 25V	
C3299	ECEV1EA4R7SR	4.7 / 25V	
C3300	ECEV1AA101SP	100 / 10V	
C3301	ECUX1H101JCV	100p / J / 50V	
C3302	ECEV1AA101SP	100 / 10V	
C3303	ECUX1E104ZFV	0.1 / Z / 25V	
C3304	ECUX1H101JCV	100p / J / 50V	
C3305	ECEV1AA101SP	100 / 10V	
C3306	ECUX1E104ZFV	0.1 / Z / 25V	
C3307	ECUX1E104ZFV	0.1 / Z / 25V	
C3308	ECUX1E104ZFV	0.1 / Z / 25V	
C3309	ECUX1E104ZFV	0.1 / Z / 25V	
C3310	ECUX1E104ZFV	0.1 / Z / 25V	
C3311	ECUX1E104ZFV	0.1 / Z / 25V	
C3313	ECUX1H101JCV	100p / J / 50V	
C3314	ECUX1E104ZFV	0.1 / Z / 25V	
C3315	ECEV1CA100SR	10 / 16V	
C3316	ECUX1E104ZFV	0.1 / Z / 25V	
C3317	ECEV1AA101SP	100 / 10V	
C3318	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3319	ECUX1H102KBV	1000p / K / 50V	
C3320	ECUX1H101JCV	100p / J / 50V	
C3321	ECUX1E104ZFV	0.1 / Z / 25V	
C3322	ECUX1E104ZFV	0.1 / Z / 25V	
C3323	ECUX1E104ZFV	0.1 / Z / 25V	
C3324	ECUX1H101JCV	100p / J / 50V	
C3325	ECUX1E104ZFV	0.1 / Z / 25V	
C3326	ECUX1E104ZFV	0.1 / Z / 25V	
C3327	ECUX1H101JCV	100p / J / 50V	
C3328	ECUX1E104ZFV	0.1 / Z / 25V	
C3329	ECUX1H101JCV	100p / J / 50V	
C3330	ECUX1E104ZFV	0.1 / Z / 25V	
C3331	ECUX1H101JCV	100p / J / 50V	
C3332	ECUX1E104ZFV	0.1 / Z / 25V	
C3333	ECUX1H101JCV	100p / J / 50V	
C3334	ECUX1E104ZFV	0.1 / Z / 25V	
C3335	ECUX1H101JCV	100p / J / 50V	
C3336	ECUX1E104ZFV	0.1 / Z / 25V	
C3337	ECUX1H101JCV	100p / J / 50V	
C3338	ECUX1E104ZFV	0.1 / Z / 25V	
C3339	ECUX1H101JCV	100p / J / 50V	
C3340	ECUX1E104ZFV	0.1 / Z / 25V	
C3341	ECUX1H101JCV	100p / J / 50V	
C3342	ECUX1E104ZFV	0.1 / Z / 25V	
C3343	ECUX1H101JCV	100p / J / 50V	
C3344	ECUX1E104ZFV	0.1 / Z / 25V	
C3345	ECUX1H101JCV	100p / J / 50V	
C3346	ECUX1E104ZFV	0.1 / Z / 25V	
C3347	ECUX1H101JCV	100p / J / 50V	
C3348	ECUX1E104ZFV	0.1 / Z / 25V	
C3349	ECUX1H101JCV	100p / J / 50V	
C3350	ECUX1E104ZFV	0.1 / Z / 25V	
C3351	ECUX1H101JCV	100p / J / 50V	
C3352	ECUX1E104ZFV	0.1 / Z / 25V	
C3353	ECUX1H101JCV	100p / J / 50V	
C3354	ECUX1E104ZFV	0.1 / Z / 25V	
C3355	ECUX1H101JCV	100p / J / 50V	
C3356	ECUX1E104ZFV	0.1 / Z / 25V	
C3357	ECUX1H101JCV	100p / J / 50V	
C3358	ECUX1H101JCV	100p / J / 50V	
C3359	ECUX1H101JCV	100p / J / 50V	
C3360	ECUX1E104ZFV	0.1 / Z / 25V	
C3361	ECUX1H101JCV	100p / J / 50V	
C3362	ECUX1E104ZFV	0.1 / Z / 25V	
C3363	ECUX1H101JCV	100p / J / 50V	
C3364	ECUX1E104ZFV	0.1 / Z / 25V	
C3365	ECUX1H101JCV	100p / J / 50V	
C3366	ECUX1E104ZFV	0.1 / Z / 25V	
C3367	ECUX1H101JCV	100p / J / 50V	
C3368	ECUX1E104ZFV	0.1 / Z / 25V	
C3369	ECEV1CA100SR	10 / 16V	
C3370	ECUX1H101JCV	100p / J / 50V	
C3375	ECEV0GA221SP	220 / 3.5V	
C3377	ECUX1H070DCN	7/50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3378	ECUX1E104ZFV	0.1 / Z / 25V	
C3379	ECUX1E104ZFV	0.1 / Z / 25V	
C3380	ECUX1E104ZFV	0.1 / Z / 25V	
C3381	ECEV1CA100SR	10 / 16V	
		COILS	
L3001	BLM11A601SPT	Chip Coil	
L3002	BLM11A601SPT	Chip Coil	
L3003	BLM11A601SPT	Chip Coil	
L3004	BLM11A601SPT	Chip Coil	
L3005	BLM11A601SPT	Chip Coil	
L3006	BLM11A601SPT	Chip Coil	
L3007	BLM11A601SPT	Chip Coil	
L3008	BLM11A601SPT	Chip Coil	
L3009	BLM11A601SPT	Chip Coil	
L3010	BLM11A601SPT	Chip Coil	
L3011	BLM11A601SPT	Chip Coil	
L3012	BLM11A601SPT	Chip Coil	
L3013	BLM11A601SPT	Chip Coil	
L3014	BLM11A601SPT	Chip Coil	
L3015	BLM11A601SPT	Chip Coil	
L3016	PJLQ220H16	Bead Inductor	
L3017	BLM11A601SPT	Chip Coil	
L3018	BLM11A601SPT	Chip Coil	
L3019	PJLQ220H16	Bead Inductor	
L3020	BLM11A601SPT	Chip Coil	
L3021	BLM11A601SPT	Chip Coil	
L3022	BLM11A601SPT	Chip Coil	
L3023	BLM11A601SPT	Chip Coil	
L3024	BLM11A601SPT	Chip Coil	
L3025	BLM11A601SPT	Chip Coil	
L3026	BLM11A601SPT	Chip Coil	
L3027	BLM11A601SPT	Chip Coil	
L3028	BLM11A601SPT	Chip Coil	
L3029	BLM11A601SPT	Chip Coil	
L3030	BLM11A601SPT	Chip Coil	
L3033	BLM11A601SPT	Chip Coil	
L3034	BLM11A601SPT	Chip Coil	
L3037	BLM11A601SPT	Chip Coil	
L3038	BLM11A601SPT	Chip Coil	
L3039	BLM11A601SPT	Chip Coil	
L3040	BLM11A601SPT	Chip Coil	
L3041	BLM11A601SPT	Chip Coil	
L3042	BLM11A601SPT	Chip Coil	
L3043	BLM11A601SPT	Chip Coil	
L3044	BLM11A601SPT	Chip Coil	
L3045	BLM11A601SPT	Chip Coil	
L3046	BLM11A601SPT	Chip Coil	
L3047	BLM11A601SPT	Chip Coil	
L3048	BLM11A601SPT	Chip Coil	
L3049	BLM11A601SPT	Chip Coil	
L3050	BLM11A601SPT	Chip Coil	
L3051	PJLQ220H16	Bead Inductor	
L3052	PJLQ220H16	Bead Inductor	
L3054	BLM11A601SPT	Chip Coil	

Ref. No.	Part No.	Part Name & Description	Remarks
L3055	BLM11A601SPT	Chip Coil	
L3056	BLM11A601SPT	Chip Coil	
L3057	BLM11A601SPT	Chip Coil	
L3059	BLM11A601SPT	Chip Coil	
L3061	BLM11A601SPT	Chip Coil	
L3064	BLM11A601SPT	Chip Coil	
L3065	BLM11A601SPT	Chip Coil	
L3066	PJLQ220H16	Bead Inductor	
L3068	BLM11A601SPT	Chip Coil	
L3069	BLM11A601SPT	Chip Coil	
L3070	BLM11A601SPT	Chip Coil	
L3071	BLM11A601SPT	Chip Coil	
L3072	BLM11A601SPT	Chip Coil	
L3073	BLM11A601SPT	Chip Coil	
L3074	BLM11A601SPT	Chip Coil	
L3075	BLM11A601SPT	Chip Coil	
L3076	BLM11A601SPT	Chip Coil	
L3077	BLM11A601SPT	Chip Coil	
L3078	BLM11A601SPT	Chip Coil	
L3079	BLM11A601SPT	Chip Coil	
L3080	BLM11A601SPT	Chip Coil	
L3081	BLM11A601SPT	Chip Coil	
L3082	BLM11A601SPT	Chip Coil	
L3084	BLM11A601SPT	Chip Coil	
L3085	BLM11A601SPT	Chip Coil	
		DIODES	
D3001	RB050L40TE25	Diode	
D3002	BR1102W	LED	
D3003	BR1102W	LED	
D3004	BR1102W	LED	
D3005	BR1102W	LED	
D3006	B0JCAE000001	Diode	
D3007	B0JCAE000001	Diode	
D3008	B0JCAE000001	Diode	
		TRANSISTORS	
Q3001	2SJ506STR	Transistor	
Q3002	B1GBCFLL0002	Transistor	
Q3003	B1GBCFLL0002	Transistor	
Q3004	B1GBCFLL0002	Transistor	
Q3005	B1GBCFLL0002	Transistor	
Q3006	PJVIDTC114EK	Transistor	
Q3007	PJVIDTC114EK	Transistor	
Q3008	PJVIDTC114EK	Transistor	
Q3009	2SC2412KR	Transistor	
Q3010	2SJ462-T2	Transistor	
		ICs	
IC3001	LX5241CPW	IC	
IC3002	LX5241CPW	IC	
IC3003	LX5241CPW	IC	
IC3004	SG8002JA80MH	Oscillator	
IC3005	FAS466	IC	
IC3007	TE3300	IC	
IC3008	C1DB00000719	Gate Array	
IC3009	CY7C199-15VC	SRAM	

Ref. No.	Part No.	Part Name & Description	Remarks
IC3010	CY7C199-15VC	SRAM	
IC3011	CY7C199-15VC	SRAM	
IC3012	CY7C199-15VC	SRAM	
IC3013	SIL58153F20Q	GateArray	
IC3014	SG8002JA25MH	Oscillator	
IC3015	CY7C199-15VC	SRAM	
IC3016	TC7SZ04FU	IC	
IC3007	SG8002JA90MH	Oscillator	
IC3018	SG8002JA40MH	Oscillator	
IC3019	PI6C2509-133	IC	
IC3020	HD74LVC125AF	IC	
IC3021	HD6412322R25	IC	
IC3022	PJXB0003Z	IC	
IC3023	PJXB0004Z	IC	
IC3024	SN74LVC10AN	IC	
IC3025	SN74LVCC4245	IC	
IC3026	SN74LVCC4245	IC	
IC3027	CY7C199-15VC	SRAM	
IC3028	CY7C199-15VC	SRAM	
IC3029	HD74LV164AFP	IC	
IC3030	HD74LV245AFP	IC	
IC3031	HD74LVC244AF	IC	
IC3032	C0JBAH000086	IC	
IC3033	HD74LVC32FP	IC	
IC3034	TC7SZ04FU	IC	
IC3035	TC7SZ04FU	IC	
IC3037	SM560BZD	IC	
IC3038	SG8002JA24MS	Oscillator	
IC3039	C1ZBZ0001984	IC	
IC3040	C0CBAAC00106	IC	
IC3042	UPC29M33T	IC	
OTHERS			
X3001	CSTCW25M0X51	Resonator	
CN3001	PCSXE68LFDTU	Connector 68P	
CN3002	PCSXE68LFDTU	Connector 68P	
CN3003	PJJS144RC01Z	Connector 144P	
CN3004	390195-6	Connector 168P	
CN3005	DF11-10DPDSA	Connector 10P	
CN3008	LPC-30M2	Connector 30P	
CN3009	LPC-6M2	Connector 6P	
CN3012	176381-5	Connector 120P	
SW3002	A6S-4102	Switch	
	C3JCSM000011	Memory Module	

15.3. MOTHER Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R2001	D4FB1R100005	Poly Switch	
R2002	D4FB1R100005	Poly Switch	
R2005	ERJ3GEYJ470	47 / J / 1/16W	
R2006	ERJ3GEYJ470	47 / J / 1/16W	
R2007	ERJ3GEYJ470	47 / J / 1/16W	
R2008	ERJ3GEYJ103	10k / J / 1/16W	
R2009	ERJ3GEYJ222	2.2k / J / 1/16W	
R2010	ERJ3GEYJ470	47 / J / 1/16W	
R2011	ERJ3GEYJ223	22k / J / 1/16W	
R2013	ERJ3GEYJ103	10k / J / 1/16W	
R2016	ERJ3GEYJ222	2.2k / J / 1/16W	
R2017	ERJ3GEYJ223	22k / J / 1/16W	
R2018	D4FB1R100005	Poly Switch	
R2020	ERJ3GEYJ103	10k / J / 1/16W	
R2021	ERJ3GEYJ103	10k / J / 1/16W	
R2022	ERJ3GEYJ103	10k / J / 1/16W	
R2023	ERJ3GEYJ103	10k / J / 1/16W	
R2024	ERJ3GEYJ220	22 / J / 1/16W	
R2025	ERJ3GEYJ220	22 / J / 1/16W	
R2026	ERJ3GEYJ103	10k / J / 1/16W	
R2027	ERJ3GEYJ220	22 / J / 1/16W	
R2028	ERJ3GEYJ220	22 / J / 1/16W	
R2029	ERJ3GEYJ220	22 / J / 1/16W	
R2030	ERJ3GEYJ220	22 / J / 1/16W	
R2031	ERJ3GEYJ220	22 / J / 1/16W	
R2033	SMD030-2	Poly Switch	
R2036	D4DA74R50001	Poly Switch	
R2039	ERJ3GEYJ220	22 / J / 1/16W	
R2040	ERJ3GEYJ472	4.7k / J / 1/16W	
R2041	ERJ3GEYJ472	4.7k / J / 1/16W	
R2042	ERJ3GEYJ472	4.7k / J / 1/16W	
R2043	ERJ3GEYJ472	4.7k / J / 1/16W	
R2044	ERJ3GEYJ472	4.7k / J / 1/16W	
R2045	ERJ3GEYJ472	4.7k / J / 1/16W	
R2046	ERJ3GEYJ472	4.7k / J / 1/16W	
R2047	ERJ3GEYJ472	4.7k / J / 1/16W	
R2048	ERJ3GEYJ472	4.7k / J / 1/16W	
R2049	ERJ3GEYJ472	4.7k / J / 1/16W	
R2050	ERJ3GEYJ472	4.7k / J / 1/16W	
R2051	ERJ3GEYJ472	4.7k / J / 1/16W	
R2056	ERJ3GEY0R00	0-ohm Jumper	
R2058	ERJ3GEYJ103	10k / J / 1/16W	
R2059	ERJ3GEYJ223	22k / J / 1/16W	
R2061	ERJ3GEYJ222	2.2k / J / 1/16W	
Z2001	MNR14E0AJ220	Resistor Array	
Z2002	MNR14E0AJ220	Resistor Array	
Z2003	MNR14E0AJ101	Resistor Array	
Z2004	MNR14E0AJ104	Resistor Array	
Z2005	MNR14E0AJ103	Resistor Array	
Z2006	MNR14E0AJ103	Resistor Array	
Z2007	MNR14E0AJ103	Resistor Array	
Z2008	MNR14E0AJ103	Resistor Array	
Z2009	MNR14E0AJ103	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z2010	MNR14E0AJ103	Resistor Array	
Z2011	MNR14E0AJ103	Resistor Array	
Z2012	MNR14E0AJ103	Resistor Array	
Z2013	MNR14E0AJ220	Resistor Array	
Z2014	MNR14E0AJ220	Resistor Array	
Z2015	MNR14E0AJ220	Resistor Array	
Z2016	MNR14E0AJ220	Resistor Array	
Z2017	MNR14E0AJ220	Resistor Array	
Z2018	MNR14E0AJ220	Resistor Array	
Z2019	MNR14E0AJ220	Resistor Array	
Z2020	MNR14E0AJ220	Resistor Array	
Z2021	MNR14E0AJ103	Resistor Array	
Z2022	MNR14E0AJ103	Resistor Array	
Z2023	MNR14E0AJ103	Resistor Array	
Z2024	MNR14E0AJ103	Resistor Array	
Z2025	MNR14E0AJ220	Resistor Array	
Z2026	MNR14E0AJ220	Resistor Array	
Z2027	MNR14E0AJ103	Resistor Array	
Z2028	MNR14E0AJ103	Resistor Array	
Z2029	MNR14E0AJ103	Resistor Array	
Z2030	MNR14E0AJ103	Resistor Array	
Z2031	MNR14E0AJ103	Resistor Array	
Z2032	MNR14E0AJ103	Resistor Array	
Z2033	MNR14E0AJ103	Resistor Array	
Z2034	MNR14E0AJ103	Resistor Array	
Z2035	MNR14E0AJ103	Resistor Array	
Z2036	MNR14E0AJ103	Resistor Array	
Z2037	MNR14E0AJ220	Resistor Array	
Z2038	MNR14E0AJ220	Resistor Array	
Z2039	MNR14E0AJ220	Resistor Array	
Z2040	MNR14E0AJ220	Resistor Array	
Z2041	MNR14E0AJ220	Resistor Array	
Z2042	MNR14E0AJ220	Resistor Array	
Z2043	MNR14E0AJ220	Resistor Array	
Z2044	MNR14E0AJ220	Resistor Array	
Z2045	MNR14E0AJ220	Resistor Array	
Z2046	MNR14E0AJ220	Resistor Array	
Z2047	MNR14E0AJ103	Resistor Array	
Z2048	MNR14E0AJ103	Resistor Array	
Z2049	MNR14E0AJ220	Resistor Array	
Z2050	MNR14E0AJ220	Resistor Array	
Z2051	MNR14E0AJ220	Resistor Array	
Z2052	MNR14E0AJ220	Resistor Array	
Z2053	MNR14E0AJ220	Resistor Array	
Z2054	MNR14E0AJ220	Resistor Array	
Z2055	MNR14E0AJ220	Resistor Array	
Z2056	MNR14E0AJ220	Resistor Array	
Z2057	MNR14E0AJ220	Resistor Array	
Z2058	MNR14E0AJ220	Resistor Array	
Z2059	MNR14E0AJ103	Resistor Array	
Z2060	MNR14E0AJ103	Resistor Array	
Z2061	MNR14E0AJ103	Resistor Array	
Z2062	MNR14E0AJ103	Resistor Array	
Z2063	MNR14E0AJ104	Resistor Array	

Ref. No.	Part No.	Part Name & Description	Remarks
Z2064	MNR14E0AJ220	Resistor Array	
Z2066	MNR14E0AJ104	Resistor Array	
Z2067	MNR14E0AJ220	Resistor Array	
Z2068	MNR14E0AJ220	Resistor Array	
		CAPACITORS	
C2002	ECUX1E104ZFV	0.1 / Z / 25V	
C2003	ECUX1E104ZFV	0.1 / Z / 25V	
C2012	ECUX1E104ZFV	0.1 / Z / 25V	
C2013	ECUX1E104ZFV	0.1 / Z / 25V	
C2015	ECEV1CA101P	100 / 16V	
C2016	ECUX1E104ZFV	0.1 / Z / 25V	
C2017	ECEV1CA101P	100 / 16V	
C2027	ECUX1E104ZFV	0.1 / Z / 25V	
C2028	ECUX1E104ZFV	0.1 / Z / 25V	
C2029	ECUX1H102KBV	1000p / K / 50V	
C2030	ECUX1H102KBV	1000p / K / 50V	
C2031	ECUX1H220JCV	22p / J / 50V	
C2032	ECUX1H220JCV	22p / J / 50V	
C2033	ECUX1H470JCV	47p / J / 50V	
C2034	ECUX1H220JCV	22p / J / 50V	
C2035	ECUX1H470JCV	47p / J / 50V	
C2036	ECUX1H470JCV	47p / J / 50V	
C2037	ECUX1H220JCV	22p / J / 50V	
C2038	ECUX1H470JCV	47p / J / 50V	
C2043	ECUX1E104ZFV	0.1 / Z / 25V	
C2044	ECUX1E104ZFV	0.1 / Z / 25V	
C2045	ECUX1E104ZFV	0.1 / Z / 25V	
C2046	ECUX1E104ZFV	0.1 / Z / 25V	
C2047	ECUX1H102KBV	1000p / K / 50V	
C2048	ECUX1H102KBV	1000p / K / 50V	
C2049	ECUX1H102KBV	1000p / K / 50V	
C2050	ECUX1H102KBV	1000p / K / 50V	
C2051	ECUX1H102KBV	1000p / K / 50V	
C2064	ECUX1H102KBV	1000p / K / 50V	
C2075	ECEV1CA101P	100 / 16V	
C2076	ECEV1AA101SP	100 / 10V	
C2077	ECEV1CA101P	100 / 16V	
C2079	ECEV1VA101P	100 / 35V	
C2080	ECEV1AA101SP	100 / 10V	
C2083	EZASCE101M	Capacitor Array	
C2087	EZASCE101M	Capacitor Array	
C2092	ECUX1E104ZFV	0.1 / Z / 25V	
C2093	ECUX1E104ZFV	0.1 / Z / 25V	
C2094	ECUX1E104ZFV	0.1 / Z / 25V	
C2095	ECUX1E104ZFV	0.1 / Z / 25V	
C2096	ECUX1E104ZFV	0.1 / Z / 25V	
C2097	ECUX1E104ZFV	0.1 / Z / 25V	
C2098	ECUX1E104ZFV	0.1 / Z / 25V	
C2100	ECUX1E104ZFV	0.1 / Z / 25V	
C2102	ECUX1E104ZFV	0.1 / Z / 25V	
C2103	ECUX1E104ZFV	0.1 / Z / 25V	
C2104	ECUX1E104ZFV	0.1 / Z / 25V	
C2105	ECUX1E104ZFV	0.1 / Z / 25V	
C2106	ECUX1E104ZFV	0.1 / Z / 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2107	ECUX1H102KBV	1000p / K / 50V	
C2108	ECUX1H102KBV	1000p / K / 50V	
C2109	ECUX1H102KBV	1000p / K / 50V	
C2110	ECUX1H102KBV	1000p / K / 50V	
C2111	ECUX1H102KBV	1000p / K / 50V	
C2112	ECUX1E104ZFV	0.1 / Z / 25V	
C2113	ECUX1E104ZFV	0.1 / Z / 25V	
C2114	ECUX1E104ZFV	0.1 / Z / 25V	
C2115	ECUX1E104ZFV	0.1 / Z / 25V	
C2116	ECUX1E104ZFV	0.1 / Z / 25V	
C2130	ECUX1E104ZFV	0.1 / Z / 25V	
C2131	ECUX1E104ZFV	0.1 / Z / 25V	
C2132	ECUX1E104ZFV	0.1 / Z / 25V	
C2133	ECEV1AA101SP	100 / 10V	
C2134	ECUX1E104ZFV	0.1 / Z / 25V	
C2135	ECEV1AA101SP	100 / 10V	
C2136	ECUX1E104ZFV	0.1 / Z / 25V	
C2137	ECUX1E104ZFV	0.1 / Z / 25V	
		COILS	
L2005	PJLQ220H16	Bead Inductor	
L2006	PJLQ220H16	Bead Inductor	
		DIODES	
D2001	B0JCAE000001	Diode	
D2003	B0JCAE000001	Diode	
		TRANSISTORS	
Q2007	B1GBCFLL0002	Transistor	
Q2008	2SJ462-T2	Transistor	
Q2009	2SJ462-T2	Transistor	
Q2010	B1GBCFLL0002	Transistor	
Q2011	B1GBCFLL0002	Transistor	
Q2012	B1GBCFLL0002	Transistor	
Q2016	B1GBCFEH0001	Transistor	
Q2019	2SJ462-T2	Transistor	
Q2020	B1GDCFLL0010	Transistor	
		ICs	
IC2001	HD74LV245AFP	IC	
IC2002	AN79L10M	IC	
IC2003	C0CBAKE00004	IC	
IC2004	HD74HCT245FP	IC	
IC2005	HD74HCT245FP	IC	
IC2006	HD74LV245AFP	IC	
IC2007	HD74LV245AFP	IC	
IC2008	HD74LV245AFP	IC	
IC2009	HD74LV245AFP	IC	
IC2010	SN74LV02ANS2	IC	
IC2011	C0JBAN000168	IC	
IC2012	C0JBAN000168	IC	
IC2013	C0JBAN000168	IC	
IC2014	HD74HCT245FP	IC	
IC2015	C0JBAC000296	IC	
IC2016	HD74HCT245FP	IC	
IC2018	C0JBAN000168	IC	
IC2019	HD74LV245AFP	IC	
IC2020	HD74HCT245FP	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC2021	HD74HCT245FP	IC	
IC2022	HD74HCT245FP	IC	
IC2023	HD74LV245AFP	IC	
IC2024	HD74LV245AFP	IC	
IC2025	C0JBAF000356	IC	
IC2026	C0JBAF000356	IC	
IC2027	C0JBAF000356	IC	
IC2028	C0JBAF000356	IC	
IC2029	C0JBAF000356	IC	
IC2030	HD74LV245AFP	IC	
OTHERS			
CN2001	K1KBJ0A00009	Connector 180P	
CN2002	B8B-PH	Connector 8P	
CN2004	B15B-PH	Connector 15P	
CN2005	B14B-PH-K-S	Connector 14P	
CN2007	K1KBC0A00042	Connector 120P	
CN2008	K1KBC0A00042	Connector 120P	
CN2009	B6P-VH	Connector 6P	
CN2010	K1KA12A00066	Connector 12P	
CN2011	K1KA18A00036	Connector 18P	
CN2012	PBB7B-PH	Connector 7P	
CN2013	PBB6B-XH	Connector 6P	
CN2014	B34B-PHDSS	Connector 34P	
CN2015	B14B-PHDSS	Connector 14P	
CN2016	PBB2B-EH	Connector 2P	
CN2018	B3B-EH	Connector 3P	
CN2019	B8P-VH-B	Connector 8P	
CN2020	K1KA07A00103	Connector 7P	
CN2025	K1KA24A00041	Connector 24P	
CN2026	B10P-VH-B	Connector 10P	
CN2027	B9B-PH-K-S	Connector 9P	

15.4. DRIVE Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R4000	ERDS2TJ220	22 / J / 1/4W	
R4001	ERDS2TJ220	22 / J / 1/4W	
R4002	ERDS2TJ392	3.9k / J / 1/4W	
R4003	ERDS2TJ222	2.2k / J / 1/4W	
R4004	ERDS2TJ392	3.9k / J / 1/4W	
R4005	ERDS2TJ222	2.2k / J / 1/4W	
R4009	ERDS2TJ392	3.9k / J / 1/4W	
R4010	ERDS2TJ222	2.2k / J / 1/4W	
R4011	ERDS2TJ101	100 / J / 1/4W	
R4012	ERDS2TJ101	100 / J / 1/4W	
R4013	ERDS2TJ121	120 / J / 1/4W	
R4014	ERDS2TJ121	120 / J / 1/4W	
R4015	ERDS2TJ562	5.6k / J / 1/4W	
R4016	ERDS2TJ823	82k / J / 1/4W	
R4017	ERDS2TJ102	1k / J / 1/4W	
R4018	ERDS2TJ222	2.2k / J / 1/4W	
R4019	ERDS2TJ220	22 / J / 1/4W	
R4020	ERDS2TJ220	22 / J / 1/4W	
R4021	ERDS2TJ220	22 / J / 1/4W	
R4022	ERDS2TJ220	22 / J / 1/4W	
R4023	ERDS2TJ220	22 / J / 1/4W	
R4024	ERDS2TJ220	22 / J / 1/4W	
R4025	ERDS2TJ220	22 / J / 1/4W	
R4026	ERDS2TJ220	22 / J / 1/4W	
R4027	ERDS2TJ220	22 / J / 1/4W	
R4028	ERDS2TJ220	22 / J / 1/4W	
R4029	ERDS2TJ220	22 / J / 1/4W	
R4030	ERDS2TJ220	22 / J / 1/4W	
R4031	ERDS2TJ220	22 / J / 1/4W	
R4033	ER0S2TKF2942	29.40k / F / 1/4W	
R4034	ER0S2TKF1001	1.00k / F / 1/4W	
R4035	ERDS2TJ102	1k / J / 1/4W	
R4036	ERDS2TJ152	1.5k / J / 1/4W	
R4037	ERDS2TJ272	2.7k / J / 1/4W	
R4038	ERDS2TJ562	5.6k / J / 1/4W	
R4039	ERDS2TJ102	1k / J / 1/4W	
R4040	ERX12SJR22V	22 / J / 1W	
R4041	ERDS2TJ562	5.6k / J / 1/4W	
R4042	ERDS2TJ152	1.5k / J / 1/4W	
R4043	ERDS2TJ152	1.5k / J / 1/4W	
R4044	ERDS2TJ222	2.2k / J / 1/4W	
R4045	ERDS2TJ222	2.2k / J / 1/4W	
R4046	ERDS2TJ562	5.6k / J / 1/4W	
R4047	ERDS2TJ222	2.2k / J / 1/4W	
R4048	ERDS2TJ222	2.2k / J / 1/4W	
R4049	ERDS2TJ103	10k / J / 1/4W	
R4050	ERDS2TJ103	10k / J / 1/4W	
R4059	ERDS2TJ103	10k / J / 1/4W	
R4060	ERDS2TJ102	1k / J / 1/4W	
R4061	ERDS2TJ102	1k / J / 1/4W	
R4062	ERDS2TJ222	2.2k / J / 1/4W	
R4063	ERDS2TJ220	22 / J / 1/4W	
R4064	ERDS2TJ220	22 / J / 1/4W	

Ref. No.	Part No.	Part Name & Description	Remarks
Z4000	RXE065	Poly Switch (650mA)	
Z4001	RXE020-AP	Poly Switch	
Z4002	D4DACR100001	Poly Switch	
Z4003	D4DACR100001	Poly Switch	
Z4004	RXE110	Poly Switch	
Z4005	RXE065	Poly Switch (650mA)	
		CAPACITORS	
C4000	EEUFC1V471	47 / 35V	
C4001	ECFF1H104ZF5	0.1 / Z / 50V	
C4002	35YXF220MT8	220 / 35V	
C4003	ECFF1H104ZF5	0.1 / Z / 50V	
C4004	EEUFC1V471	47 / 35V	
C4005	EEUFC1V471	47 / 35V	
C4006	35YXF220MT8	220 / 35V	
C4009	50YXF33M	33 / 50V	
C4010	50YXF33M	33 / 50V	
C4012	ECFF1H104ZF5	0.1 / Z / 50V	
C4013	ECFF1H104ZF5	0.1 / Z / 50V	
C4014	50YXF33M	33 / 50V	
C4015	ECFF1H104ZF5	0.1 / Z / 50V	
C4022	ECKF1H471KB	470p / K / 50V	
C4025	ECKF1H471KB	470p / K / 50V	
C4028	ECKF1H471KB	470p / K / 50V	
C4037	ECFF1H104ZF5	0.1 / Z / 50V	
C4038	ECFF1H104ZF5	0.1 / Z / 50V	
C4039	ECKD3A331KBP	330p / K / 1kV	
C4040	50YXF220M	220 / 50V	
C4041	35YXF220MT8	220 / 35V	
C4042	ECKF1H471KB	470p / K / 50V	
		COIL	
L4000	PJLQ471P45	Coil	
		DIODES	
D4000	PJVDHZS18-1	Diode	
D4001	PJVDHZS18-1	Diode	
D4002	PJVDHZS18-1	Diode	
D4003	ERA91-02	Diode	
D4004	ERA91-02	Diode	
D4005	ERA91-02	Diode	
		TRANSISTORS	
Q4000	2SC3311A	Transistor	
Q4001	2SC3311A	Transistor	
Q4002	2SC3311A	Transistor	
Q4003	UN4213	Transistor	
Q4004	UN4221	Transistor with Regulator	
Q4005	2SD2137-P	Transistor	
Q4006	UN4221	Transistor with Regulator	
Q4007	IRFI9Z34G	Transistor	
Q4008	B1CGPD000001	Transistor	
Q4009	UN4213	Transistor	
Q4010	UN4213	Transistor	
Q4011	2SC3311A	Transistor	
Q4012	2SC3311A	Transistor	
Q4013	UN4213	Transistor	
		ICs	

Ref. No.	Part No.	Part Name & Description	Remarks
IC4000	C0GAN0000010	IC	
IC4001	C0GAN0000010	IC	
IC4002	C0GAL0000003	IC	
IC4003	TC74HC273P	CMOS74HC	
IC4004	TC74HC273P	CMOS74HC	
IC4005	NJM2360AD	IC	
OTHER			
CN4000	176381-5	Connector 120P	

15.5. PANEL Board

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R1	ERDS2TJ102	1k / J / 1/4W	
R2	ERDS2TJ102	1k / J / 1/4W	
R3	ERDS2TJ102	1k / J / 1/4W	
R4	ERDS2TJ102	1k / J / 1/4W	
R5	ERDS2TJ102	1k / J / 1/4W	
R6	ERDS2TJ102	1k / J / 1/4W	
R7	ERDS2TJ102	1k / J / 1/4W	
R8	ERDS2TJ102	1k / J / 1/4W	
R9	ERDS2TJ102	1k / J / 1/4W	
R10	ERDS2TJ102	1k / J / 1/4W	
R11	ERDS2TJ102	1k / J / 1/4W	
R12	ERDS2TJ102	1k / J / 1/4W	
R13	ERDS2TJ102	1k / J / 1/4W	
R14	ERDS2TJ102	1k / J / 1/4W	
R15	ERDS2TJ102	1k / J / 1/4W	
R16	ERDS2TJ103	10k / J / 1/4W	
R17	ERDS2TJ561	560 / J / 1/4W	
R18	ERDS2TJ103	10k / J / 1/4W	
R19	ERDS2TJ221	220 / J / 1/4W	
R20	ERDS2TJ273	27k / J / 1/4W	
R21	ERDS2TJ152	1.5k / J / 1/4W	
R22	ERDS2TJ104	100k / J / 1/4W	
R23	ERDS2TJ331	330 / J / 1/4W	
R24	ERDS2TJ681	680 / J / 1/4W	
R89	ERDS2TJ102	1k / J / 1/4W	
R114	ERDS2TJ100	10 / J / 1/4W	
R115	ERDS2TJ100	10 / J / 1/4W	
Z1	RGLE8X103J	Resistor Array	
Z2	RGLE8X103J	Resistor Array	
Z3	RGLE8X103J	Resistor Array	
		CAPACITORS	
C1	ECEA1AKS101	100 / 10V	
C18	ECEA1AKS101	100 / 10V	
C19	RPE132F104	Capacitor	
C20	RPE132F104	Capacitor	
C21	RPE132F104	Capacitor	
C22	ECQV1H103JL3	0.01 / J / 50V	
C23	ECQV1H104JL3	0.1 / J / 50V	
C24	ECEA1AKS101	100 / 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C26	ECEA1AKS101	100 / 10V	
C27	ECEA0JKS331	330 / 6.3V	
C28	ECEA1AKS101	100 / 10V	
C29	RPE132F104	Capacitor	
		DIODE	
D1	GL9ED2	LED	
		TRANSISTORS	
Q1	PJVTDTC143X	Transistor	
Q2	PJVTDTC143X	Transistor	
Q3	2SC3311A	Transistor	
ICs			
IC1	SN74HC245N	IC	
IC2	SN74HC245N	IC	
IC3	GMD2021BLY	IC	
IC4	C1BA00000155	IC	
		OTHERS	
SW1	EVQ23405R	Side Switch	
SW2	EVQ23405R	Side Switch	
SW3	EVQ23405R	Side Switch	
SW4	EVQ23405R	Side Switch	
SW5	EVQ23405R	Side Switch	
SW6	EVQ23405R	Side Switch	
SW7	EVQ23405R	Side Switch	
SW8	EVQ23405R	Side Switch	
SW9	EVQ23405R	Side Switch	
SW10	EVQ23405R	Side Switch	
SW11	EVQ23405R	Side Switch	
SW12	EVQ23405R	Side Switch	
SW13	EVQ23405R	Side Switch	
CN1	S24B-PHDSS	Connector 24P	
CN2	PBS3B-XH	Connector 3P	
CN34	K1KA16A00160	Connector 16P	
CN35	K1KA02A00358	Connector 2P	
	LH-36-5	Spacer	
	C-2001.5	Spacer	
	XNG2EFX	Screw	
	XYN2+J10FX	Screw	

15.6. SIZE Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R26	ERDS2TJ331	330 / J / 1/4W	
R27	ERDS2TJ331	330 / J / 1/4W	
R28	ERDS2TJ331	330 / J / 1/4W	
R29	ERDS2TJ331	330 / J / 1/4W	
R30	ERDS2TJ331	330 / J / 1/4W	
R31	ERDS2TJ103	10k / J / 1/4W	
R32	ERDS2TJ103	10k / J / 1/4W	
R33	ERDS2TJ103	10k / J / 1/4W	
R34	ERDS2TJ103	10k / J / 1/4W	
R35	ERDS2TJ103	10k / J / 1/4W	
R116	ERDS2TJ103	10k / J / 1/4W	
CAPACITORS			
C30	RPE132F104	Capacitor	
C85	RPE132F104	Capacitor	
C86	RPE132F104	Capacitor	
C87	RPE132F104	Capacitor	
C88	RPE132F104	Capacitor	
TRANSISTORS			
Q4	2SC3311A	Transistor	
Q5	2SC3311A	Transistor	
Q6	2SC3311A	Transistor	
Q7	2SC3311A	Transistor	
Q8	2SC3311A	Transistor	
ICs			
IC5	TLP832	Photo Interrupter	
IC6	TLP832	Photo Interrupter	
IC7	TLP832	Photo Interrupter	
IC8	TLP832	Photo Interrupter	
IC9	TLP832	Photo Interrupter	
OTHERS			
CN3	52080-1010	Connector 10P	
CN4	PBS4B-PH	Connector 4P	

15.7. HOPPER [CONNECOTOR] Board

Ref. No.	Part No.	Part Name & Description	Remarks
OTHERS			
CN6	5597-10CPB	Connector 10P	
CN8	B9B-PH-K-S	Connector 9P	

15.8. HOPPER [POSITION] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R36	ERDS2TJ331	330 / J / 1/4W	
R38	ERDS2TJ103	10k / J / 1/4W	
R40	ERDS2TJ331	330 / J / 1/4W	
R41	ERDS2TJ103	10k / J / 1/4W	
CAPACITORS			
C31	RPE132F104	Capacitor	
C33	RPE132F104	Capacitor	
TRANSISTORS			
Q9	2SC3311A	Transistor	
Q11	2SC3311A	Transistor	
ICs			
IC10	TLP832	Photo Interrupter	
IC12	TLP832	Photo Interrupter	
OTHERS			
CN7	5597-04CPB	Connector 4P	
CN9	PBB5B-PH	Connector 5P	

15.9. HOPPER [ANGLE] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R37	ERDS2TJ331	330 / J / 1/4W	
R39	ERDS2TJ103	10k / J / 1/4W	
CAPACITOR			
C32	RPE132F104	Capacitor	
TRANSISTOR			
Q10	2SC3311A	Transistor	
IC			
IC11	TLP832	Photo Interrupter	
OTHER			
CN5	5597-04CPB	Connector 4P	

15.10. POINTER DETECTOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R47	ERDS2TJ331	330 / J / 1/4W	
R48	ERDS2TJ103	10k / J / 1/4W	
CAPACITOR			
C38	RPE132F104	Capacitor	
TRANSISTOR			
Q14	2SC3311A	Transistor	
IC			
IC15	TLP832	Photo Interrupter	
OTHERS			
CN14	PBS3B-PH	Connector 3P	
CN15	PBS4B-PH	Connector 4P	

15.11. RELAY [LOWER] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R90	ERDS2TJ102	1k / J / 1/4W	
R95	ERDS2TJ472	4.7k / J / 1/4W	
R95	ERDS2TJ472	4.7k / J / 1/4W	
R97	ERDS2TJ821	820 / J / 1/4W	
R98	ERDS2TJ222	2.2k / J / 1/4W	
R99	ERDS2TJ472	4.7k / J / 1/4W	
R100	ERDS2TJ821	820 / J / 1/4W	
R101	ERDS2TJ222	2.2k / J / 1/4W	
R102	ERDS2TJ473	47k / J / 1/4W	
R103	ERDS2TJ473	47k / J / 1/4W	
R104	ERDS2TJ473	47k / J / 1/4W	
R105	ERDS2TJ473	47k / J / 1/4W	
R106	ERDS2TJ103	10k / J / 1/4W	
R107	ERDS2TJ102	1k / J / 1/4W	
R108	ERDS2TJ102	1k / J / 1/4W	
R109	ERDS2TJ682	6.8k / J / 1/4W	
CAPACITORS			
C77	ECEA1CKS101	100 / 16V	
C78	RPE132F104	Capacitor	
C79	ECEA1VKS100	10 / 35V	
C80	RPE132F104	Capacitor	
C81	ECFR1H103ZF5	0.01 / Z / 50V	
C82	ECFR1H103ZF5	0.01 / Z / 50V	
C83	ECFR1H103ZF5	0.01 / Z / 50V	
C84	ECFR1H103ZF5	0.01 / Z / 50V	
C97	RPE132F104	Capacitor	
TRANSISTORS			
Q25	2SC3311A	Transistor	
Q26	2SA1309A	Transistor	
Q27	2SC3311A	Transistor	
Q28	2SC3311A	Transistor	
Q29	2SC3311A	Transistor	
Q30	2SC3311A	Transistor	
Q31	2SA1309A	Transistor	
Q32	2SC3311A	Transistor	
Q33	2SA1309A	Transistor	
IC			
IC26	PPVI74HCT04A	Transistor	
OTHERS			
CN13	K1KA04A00310	Connector 4P	
CN16	PBB6B-PH	Connector 6P	

15.12. DOUBLE FEED DETECTOR [G] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTOR			
R46	ERDS2TJ392	3.9k / J / 1/4W	
OTHERS			
X1	MA200A1	Sensor	
CN12	175489-4	Connector 4P	

15.13. POST IMPRINTER DOOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R43	ERDS2TJ331	330 / J / 1/4W	
R44	ERDS2TJ103	10k / J / 1/4W	
R111	ERDS2TJ103	10k / J / 1/4W	
CAPACITOR			
C35	RPE132F104	Capacitor	
TRANSISTOR			
Q13	2SC3311A	Transistor	
IC			
IC14	TLP832	Photo Interrupter	
OTHER			
CN11	K1KA04B00056	Connector 3P	

15.14. EXIT [FRONT] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R42	ERDS2TJ221	220 / J / 1/4W	
R45	ERDS2TJ333	33k / J / 1/4W	
CAPACITOR			
C44	RPE132F104	Capacitor	
TRANSISTOR			
Q12	2SA1309A	Transistor	
IC			
IC13	B3NAB0000028	Photo Reflector	
OTHER			
CN10	PBS3B-PH	Connector 3P	

15.15. SKEW [L] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R49	ERDS2TJ271	270 / J / 1/4W	
R50	ERDS2TJ271	270 / J / 1/4W	
R51	ERDS2TJ271	270 / J / 1/4W	
R52	ERDS2TJ271	270 / J / 1/4W	
R53	ERDS2TJ333	33k / J / 1/4W	
R54	ERDS2TJ333	33k / J / 1/4W	
R55	ERDS2TJ333	33k / J / 1/4W	
R56	ERDS2TJ333	33k / J / 1/4W	
CAPACITOR			
C44	RPE132F104	Capacitor	
TRANSISTORS			
Q15	2SA1309A	Transistor	
Q16	2SA1309A	Transistor	
Q17	2SA1309A	Transistor	
Q18	2SA1309A	Transistor	
ICs			
IC16	B3NAB0000028	Photo Reflector	
IC17	B3NAB0000028	Photo Reflector	
IC18	B3NAB0000028	Photo Reflector	
IC19	B3NAB0000028	Photo Reflector	
OTHERS			
CN33	S8B-PH-K-S	Connector 8P	
	PBHR38X	Spacer	

15.16. SKEW [R] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R59	ERDS2TJ271	270 / J / 1/4W	
R60	ERDS2TJ333	33k / J / 1/4W	
R62	ERDS2TJ271	270 / J / 1/4W	
R64	ERDS2TJ333	33k / J / 1/4W	
CAPACITOR			
C51	RPE132F104	Capacitor	
TRANSISTORS			
Q20	2SA1309A	Transistor	
Q22	2SA1309A	Transistor	
ICs			
IC21	B3NAB0000028	Photo Reflector	
IC23	B3NAB0000028	Photo Reflector	
OTHERS			
CN19	S6B-PH	Connector 6P	
	PBHR38X	Spacer	

15.17. JAM SENSOR Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R61	ERDS2TJ221	220 / J / 1/4W	
R63	ERDS2TJ333	33k / J / 1/4W	
CAPACITOR			
C52	RPE132F104	Capacitor	
TRANSISTOR			
Q21	2SA1309A	Transistor	
IC			
IC22	B3NAB0000028	Photo Reflector	
OTHER			
CN20	PBS3B-PH	Connector 3P	

15.18. RETARD [POSITION] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R57	ERDS2TJ331	330 / J / 1/4W	
R58	ERDS2TJ103	10k / J / 1/4W	
R112	ERDS2TJ103	10k / J / 1/4W	
CAPACITOR			
C46	RPE132F104	Capacitor	
TRANSISTOR			
Q19	2SC3311A	Transistor	
IC			
IC20	TLP832	Photo Interrupter	
OTHER			
CN18	PBS3B-PH	Connector 3P	

15.19. DOUBLE FEED DETECTOR [R] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTOR			
R65	ERDS2TJ392	3.9k / J / 1/4W	
OTHERS			
X2	MA200A1	Sensor	
CN21	PB175489-3	Connector 3P	

15.20. FAN RELAY 1 Board

Ref. No.	Part No.	Part Name & Description	Remarks
OTHERS			
CN29	B3B-PH-K-S	Connector 3P	
CN30	B3B-EH	Connector 3P	

15.21. FAN RELAY 2 Board

Ref. No.	Part No.	Part Name & Description	Remarks
OTHERS			
CN31	B3B-PH-K-S	Connector 3P	
CN32	B3B-EH	Connector 3P	

15.22. RELAY [UPPER] Board

Ref. No.	Part No.	Part Name & Description	Remarks
RESISTORS			
R67	ERDS2TJ104	100k / J / 1/4W	
R70	ERDS2TJ101	100 / J / 1/4W	
R72	ERDS2TJ104	100k / J / 1/4W	
R75	ERDS2TJ123	12k / J / 1/4W	
R76	ERDS2TJ473	47k / J / 1/4W	
R77	ERDS2TJ104	100k / J / 1/4W	
R78	ERDS2TJ104	100k / J / 1/4W	
R79	ERDS2TJ104	100k / J / 1/4W	
R80	ERDS2TJ473	47k / J / 1/4W	
R81	ERDS2TJ102	1k / J / 1/4W	
R82	ERDS2TJ153	15k / J / 1/4W	
R83	ERDS2TJ103	10k / J / 1/4W	
R84	ERDS2TJ102	1k / J / 1/4W	
R85	ERDS2TJ392	3.9k / J / 1/4W	
R86	ERDS2TJ751T	750 / J / 1/4W	
R87	ERDS2TJ152	1.5k / J / 1/4W	
R113	ERDS2TJ101	100 / J / 1/4W	
CAPACITORS			
C54	ECQB1H103JF3	0.01 / J / 50V	
C56	ECQB1H103JF3	0.01 / J / 50V	
C57	RPE132F104	Capacitor	
C59	RPE132F104	Capacitor	
C60	ECQB1H103JF3	0.01 / J / 50V	
C62	ECQB1H103JF3	0.01 / J / 50V	
C63	RPE132F104	Capacitor	
C64	ECQB1H103JF3	0.01 / J / 50V	
C65	RPE132F104	Capacitor	
C66	ECQB1H103JF3	0.01 / J / 50V	
C67	RPE132F104	Capacitor	
C68	ECEA1CKS101	100 / 16V	
C69	ECQB1H103JF3	0.01 / J / 50V	
C70	RPE132F104	Capacitor	
C71	ECEA1CKS101	100 / 16V	
C72	ECQB1H103JF3	0.01 / J / 50V	
C73	RPE132F104	Capacitor	
C75	ECEA1CKS101	100 / 16V	
C76	ECQB1H103JF3	0.01 / J / 50V	
DIODES			
D2	MA165	Diode	
D3	MA165	Diode	
D4	MA165	Diode	
TRANSISTORS			

Ref. No.	Part No.	Part Name & Description	Remarks
Q23	2SA1309A	Transistor	
Q24	2SC3311A	Transistor	
		ICs	
IC24	C0AAAA000012	IC	
IC25	NJM2082D	Operational Amp.	
		OTHERS	
CN23	PBB4B-PH	Connector 4P	
CN24	B3B-PH-K-S	Connector 3P	
CN26	PB175487-3	Connector 3P	
CN27	B20B-PHDSS	Connector 20P	
CN28	B14B-PHDSS	Connector 14P	
TH1	PB103AT	Thermistor	

16. Schematic Diagram and Circuit Boards for printing with A4 size

16.1. Schematic Diagram

16.1.1. MAIN Board

16.1.2. I/F Board (SCSI Board)

16.1.3. MOTHER Board

16.1.4. DRIVE Board

16.1.5. PANEL, SENSOR Boards

16.2. Circuit Boards

16.2.1. MAIN Board

16.2.2. I/F Board (SCSI Board)

16.2.3. MOTHER Board

16.2.4. DRIVE Board

16.2.5. PANEL Board

16.2.6. SIZE Board

16.2.7. HOPPER [CONNECTOR] Board

16.2.8. HOPPER [POSITION] Board

16.2.9. HOPPER [ANGLE] Board

16.2.10. POINTER Board

16.2.11. RELAY [LOWER] Board

16.2.12. DOUBLE FEED DETECTOR [G] Board

16.2.13. POST IMPRINTER DOOR Board

16.2.14. EXIT [FRONT] Board

16.2.15. SKEW [L] Board

16.2.16. SKEW [R] Board

16.2.17. JAM Board

16.2.18. RETARD [POSITION] Board

16.2.19. DOUBLE FEED DETECTOR [R] Board

16.2.20. FAN RELAY 1 Board

16.2.21. FAN RELAY 2 Board

16.2.22. RELAY [UPPER] Board

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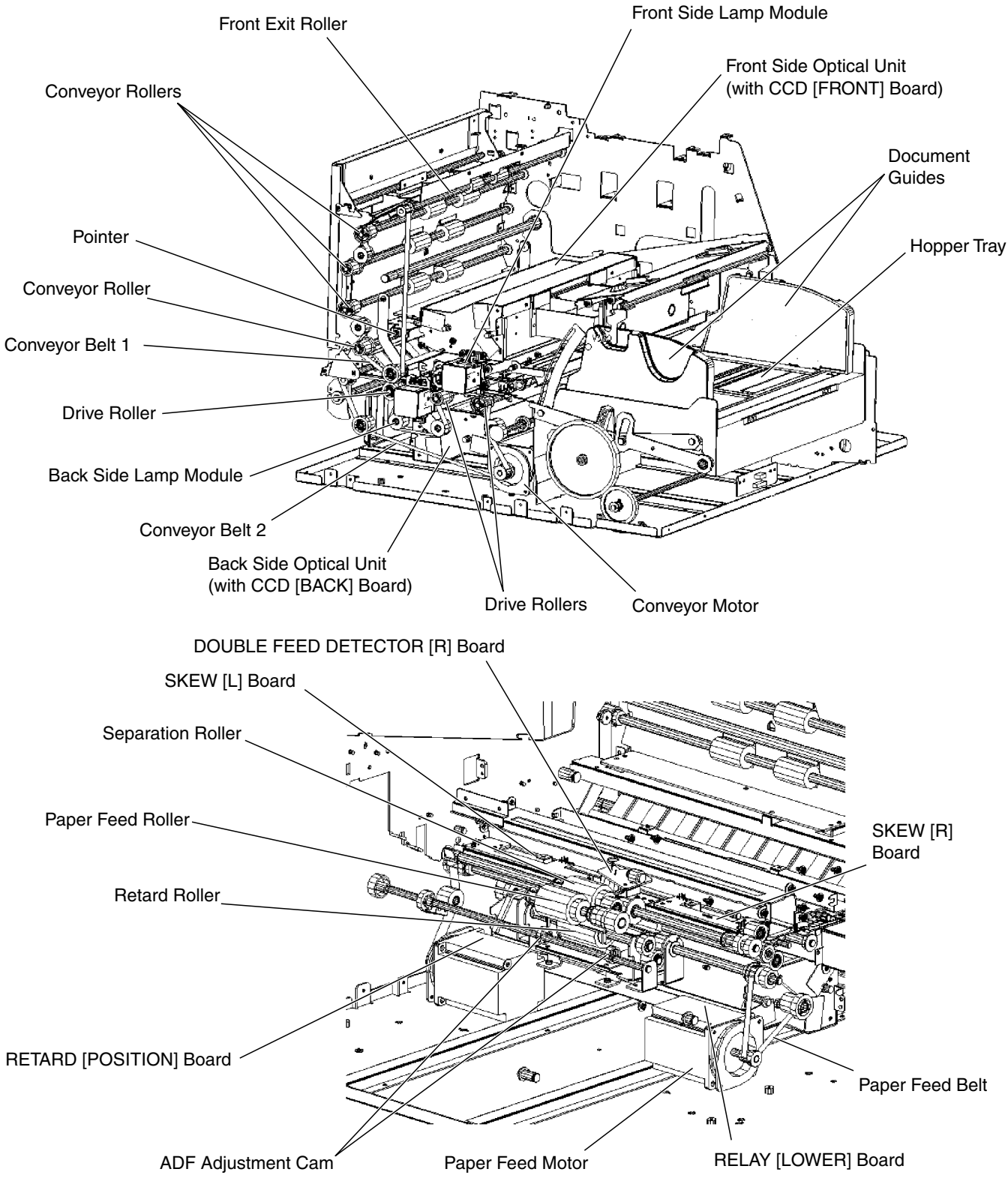
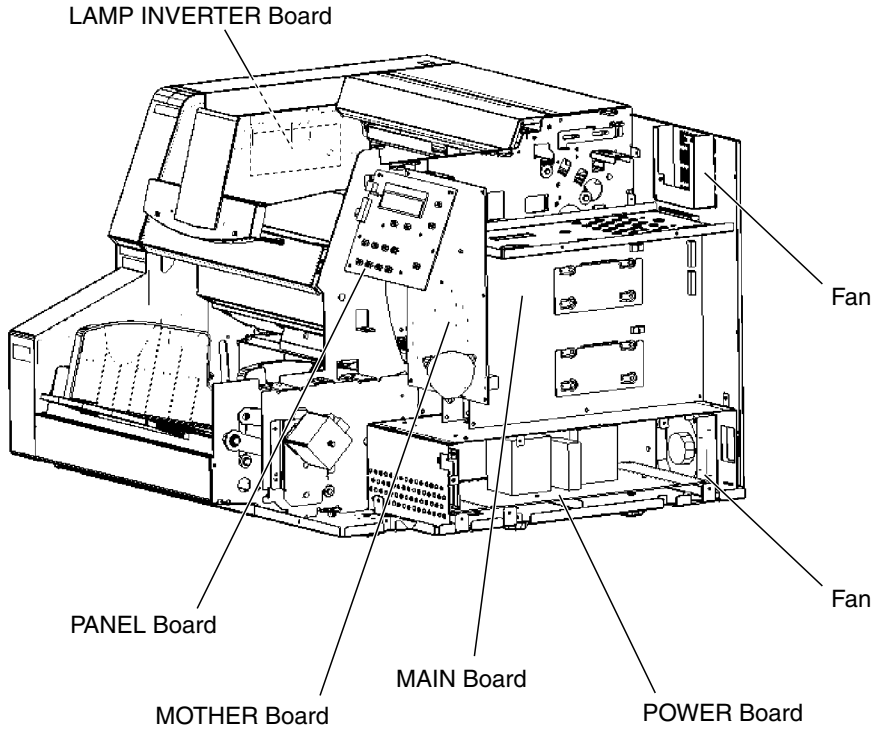
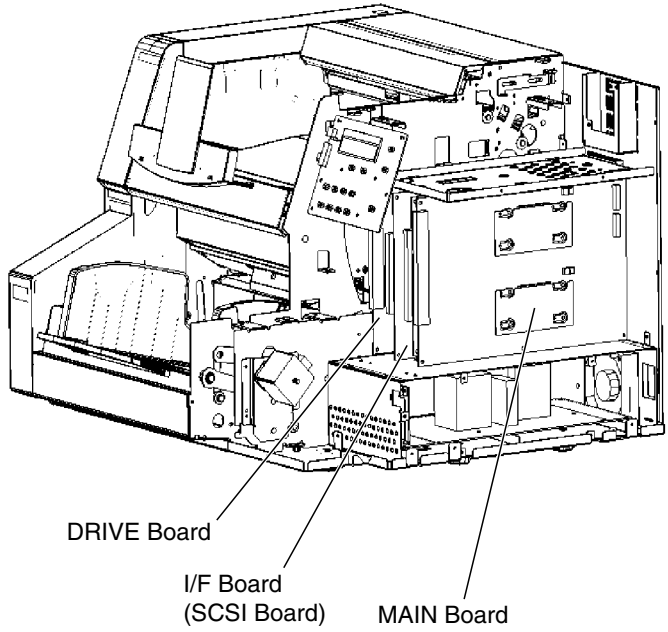
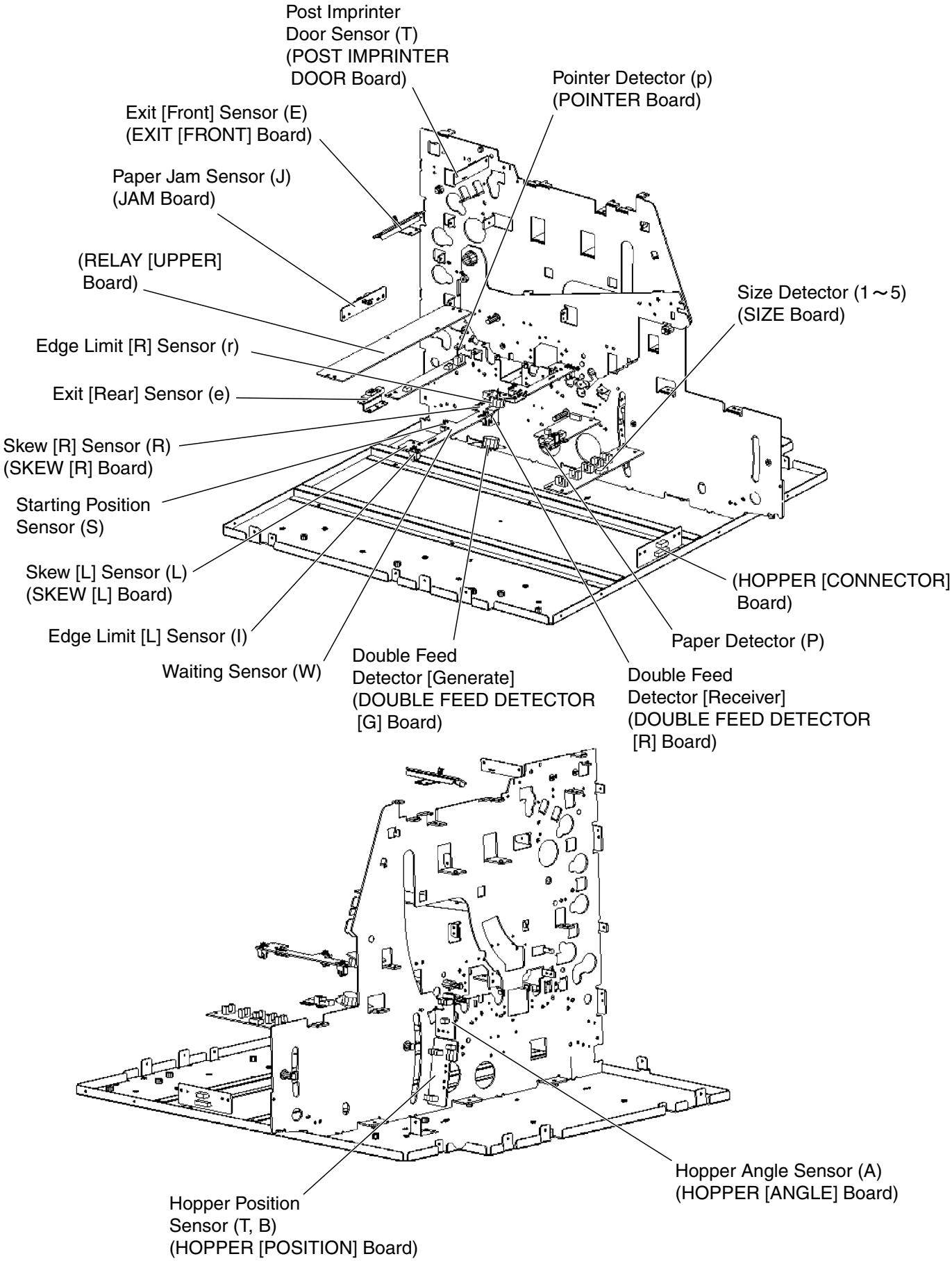
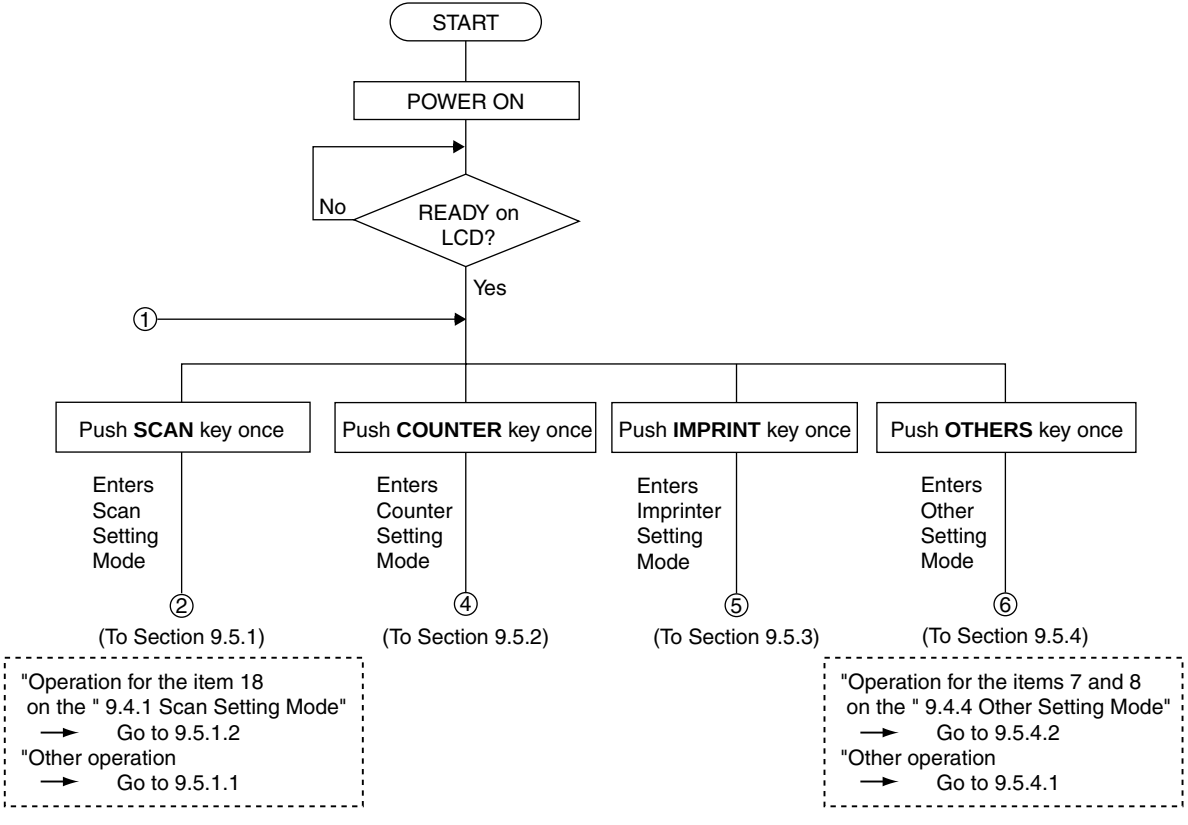

Front Exit Roller
Front Side Lamp Module
Front Side Optical Unit
(with CCD [FRONT] Board)
Conveyor Rollers
Document
Guides
Pointer
Hopper Tray
Conveyor Roller
Conveyor Belt 1
Drive Roller
Back Side Lamp Module
Conveyor Belt 2
Back Side Optical Unit
(with CCD [BACK] Board)
Drive Rollers
Conveyor Motor
DOUBLE FEED DETECTOR [R] Board
SKEW [L] Board
Separation Roller
Paper Feed Roller
SKEW [R]
Board
Retard Roller
RETARD [POSITION] Board
Paper Feed Belt
ADF Adjustment Cam
Paper Feed Motor
RELAY [LOWER] Board


LAMP INVERTER Board
Fan
Fan
PANEL Board
MOTHER Board
MAIN Board
POWER Board


DRIVE Board
I/F Board
(SCSI Board)
MAIN Board


Post Imprinter Door Sensor (T) (POST IMPRINTER DOOR Board)
Pointer Detector (p) (POINTER Board)
Exit [Front] Sensor (E) (EXIT [FRONT] Board)
Paper Jam Sensor (J) (JAM Board)
(RELAY [UPPER] Board)
Size Detector (1～5) (SIZE Board)
Edge Limit [R] Sensor (r)
Exit [Rear] Sensor (e)
Skew [R] Sensor (R) (SKEW [R] Board)
Starting Position Sensor (S)
Skew [L] Sensor (L) (SKEW [L] Board)
(HOPPER [CONNECTOR] Board)
Edge Limit [L] Sensor (I)
Paper Detector (P)
Waiting Sensor (W)
Double Feed Detector [Generate] (DOUBLE FEED DETECTOR [G] Board)
Double Feed Detector [Receiver] (DOUBLE FEED DETECTOR [R] Board)
Hopper Angle Sensor (A) (HOPPER [ANGLE] Board)
Hopper Position Sensor (T, B) (HOPPER [POSITION] Board)


START
POWER ON
No
READY on LCD?
Yes
①
Push **SCAN** key once
Push **COUNTER** key once
Push **IMPRINT** key once
Push **OTHERS** key once
Enters Scan Setting Mode
Enters Counter Setting Mode
Enters Imprinter Setting Mode
Enters Other Setting Mode
②
④
⑤
⑥
(To Section 9.5.1)
(To Section 9.5.2)
(To Section 9.5.3)
(To Section 9.5.4)
"Operation for the item 18 on the " 9.4.1 Scan Setting Mode"
→ Go to 9.5.1.2
"Other operation
→ Go to 9.5.1.1
"Operation for the items 7 and 8 on the " 9.4.4 Other Setting Mode"
→ Go to 9.5.4.2
"Other operation
→ Go to 9.5.4.1

No	Item	Setting Contents												Default	Factory Default	Remarks
1	F. Color Drop	Host	Green	Red	Blue									Host	Host	(1)
2	F. Brightness	Host	D3	D4	D2	D1	Norm	L1	L2	L3	L4			Host	Host	(1)
3	F. Emphasis	Host	None	Smooth	Low	Medium	High							Host	Host	(1)
4	F. Contrast	Host	L3	L4	L2	L1	Norm	H1	H2	H3	H4			Host	Host	(1)
5	F. Halftone	Host	Bayer dither	Binary	Bayer dither	Halftone dot 32	Halftone dot 64	Error diffusion	Dynamic Thres.					Host	Host	(1)
6	B. Color Drop	Host	Green	Red	Blue									Host	Host	(1)
7	B. Brightness	Host	D3	D4	D2	D1	Norm	L1	L2	L3	L4			Host	Host	(1)
8	B. Emphasis	Host	None	Smooth	Low	Medium	High							Host	Host	(1)
9	B. Contrast	Host	L3	L4	L2	L1	Norm	H1	H2	H3	H4			Host	Host	(1)
10	B. Halftone	Host	Bayer dither	Binary	Bayer dither	Halftone dot 32	Halftone dot 64	Error diffusion	Dynamic Thres.					Host	Host	(1)
11	Noise Reduction	Host	B 1×1	None	–	B 6×6	W 1×1	–	W 6×6					Host	Host	(1)
12	Black Line Remove	Host	Enable	Disable										Host	Host	(1)
13	Scanning Mode	Host	Actual	Fit to Page										Host	Host	(1)
14	Double Feed	Host	Detect	Not detect										Host	Host	(1)
15	Double Feed (Action after detecting double feed)	Host	Buzzer	Stop										Host	Host	(1)
16	Double Feed (Set Sensitivity)	Host	Normal	Low Sensitivity	High Sensitivity									Host	Host	(1)
17	Feed Speed	Host	Normal	Slow										Host	Host	(1)
18-a	Save Setting (Select memory)	Memory 1		Memory 2										Memory1	Memory1	(1)
18-b	Save Setting (Memorize scanning condition to EEPROM)	Exec												–	–	–
19	Load setting data (for scanning condition)	Default	Memory 2	Memory 1										Default	Default	(1)

Remarks
(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.

No	Item	Setting Contents												Default	Factory Default	Remarks
1	Disp. Counter	Scan	User	System										Scan	Scan	(1)
2-a	User Counter (Set counter value)	0 – 9999999												0	0	(1)
2-b	User Counter (Set increment value)	+1 – +9												+1	+1	(1)
2-c	User Counter (Clear user counter)	Exec (Clear)												–	–	–
3	System Counter													–	–	(2)

Remarks
(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.

No	Item	Setting Contents												Default	Factory Default	Remarks
11	Post Imprint (Select contents to print)	Host	Count											Host	Host	(1)
12	Post Position (Set starting position to be printed)	Host	0 – 72 Char.											Host	Host	(1)
13	Post Font	Host	Bold	Normal										Host	Host	(1)
14	Post Rotate	Host	0°	90°	180°	270°								Host	Host	(1)

Remarks
(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.

Note

- **The Imprinter Setting Mode is available only if the optional Imprinter is installed.**
- **The above Imprinter Setting Mode 11-14 will not be displayed if the Post Imprinter is not installed.**
- **Regarding "12. Post Position"**
  Set the position from which printing starts, based on the top of the sheet.

No	Item	Setting Contents												Default	Factory Default	Remarks
1-a	Firmware version (MAIN)													-	-	(2)
1-b	Firmware version *1 (SCSI)													-	-	(2)
1-c	Firmware version *2 (Post-Imprinter)													-	-	(2)
2	Buzzer	OFF	ON											ON	ON	(1)
3	SCSI ID *3	0-15 or 0-7												6	6	(1)
4	Terminator *4	Disable	Enable											Enable	Enable	(1)
5	Wide SCSI	Disable	Enable											Enable	Enable	(1)
6	Transfer Rate	20 MB/s	10 MB/s											20MB/s	20MB/s	(1)
7-a	Clean Roller Warning (Disp.%)	- %												0%	0%	(2)
7-b	Clean Roller (Clear warning for "Clean Roller")	Clear												-	-	-
8-a	Replace Roller Warning (Disp.%)	- %												0%	0%	(2)
8-b	Replace Roller (Clear warning for "Replace Roller")	Clear												-	-	-
9	Product ID *5	KV-SS905C	KV-SS855	KV-S2065	KV-S2055	KV-S6055	KV-S6045							KV-SS905C	KV-SS905C	-
10	Sleep Mode (Set period to enter in Sleep Mode.)	Disable	1min - 60min											15min	15min	(1)

Remarks

(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.

Note

***1 : This information on LCD includes amount value for additional memory. This version information will not be displayed when I/F (SCSI) Board is not installed.**
***2 : This version information will not be displayed when Post-Imprinter is not installed.**
***3 : In case that Wide SCSI setting is "Enable" : ID 0 to 15.**
- **Setting the SCSI ID will be activated after turning the power OFF and turning it ON again.**

***4 : If the scanner is the last device in the SCSI chain, then the terminator should be set to "Enable". But, under the above SCSI chain and scanner's turn-off, the terminator should be attached to the SCSI connector on the scanner.**
- **Setting the terminator will be activated after turning the power OFF and turning it ON again.**

***5 : Setting the Product ID will be activated after turning the power OFF and turning it ON again.**

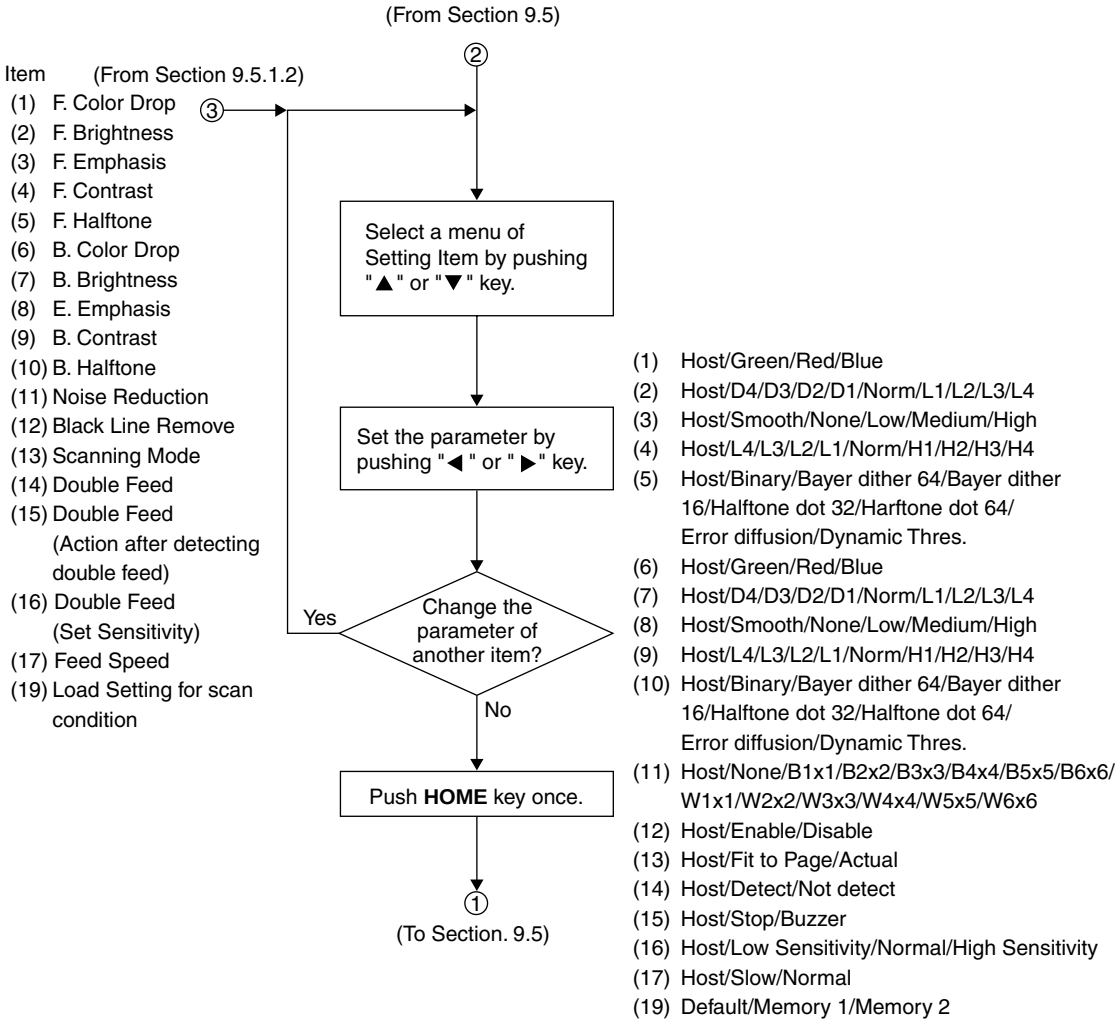
No	Item	Setting Contents	Default	Factory Default	Remarks
1-a	PCB Revision (MAIN)		–	–	(1)
1-b	PCB Revision (SCSI)		–	–	(1)
1-c	PCB Revision (DRIVE)		–	–	(1)
1-d	PCB Revision (F.CCD)		–	–	(1)
1-e	PCB Revision (B.CCD)		–	–	(1)
2	Clean Roller (Set counter for roller cleaning timing)	5000 – 1000000	20,000	20,000	(3)
3	Replace Roller (Set counter for roller replacement timing)	5000 – 1000000	300,000	300,000	(3)
4	Detect size	A4 Ltr	*1	–	–
5	Adjust value for Length manually	0-255	–	–	(4)
6	Adjust value for Front V. position manually	0-255	–	–	(4)
7	Sensor Delay 1 (Adjust value for Sensor Delay OFF→ON manually)	128-255	–		(4)
8	Sensor Delay 2 (Adjust value for Delay ON→OFF manually)	128-255	–	–	(4)
9	Sensor Hysteresis (Adjust value for Switching ON→OFF manually)	128-255	–	–	(4)
10	Adjust value for Front Width manually	8 - 128	–		(4)
11	Adjust value for Front H.position manually	0 - 255	–	–	(4)
12	Adjust value for Back V.position manually	0 - 255	–	–	(4)
13	Adjust value for Back Width manually	8 - 128	–		(4)
14	Adjust value for Back H. Position manually	0 – 255	–	–	(4)
15	Set Default	Exec			(3)
16	Reset Language	Exec			–

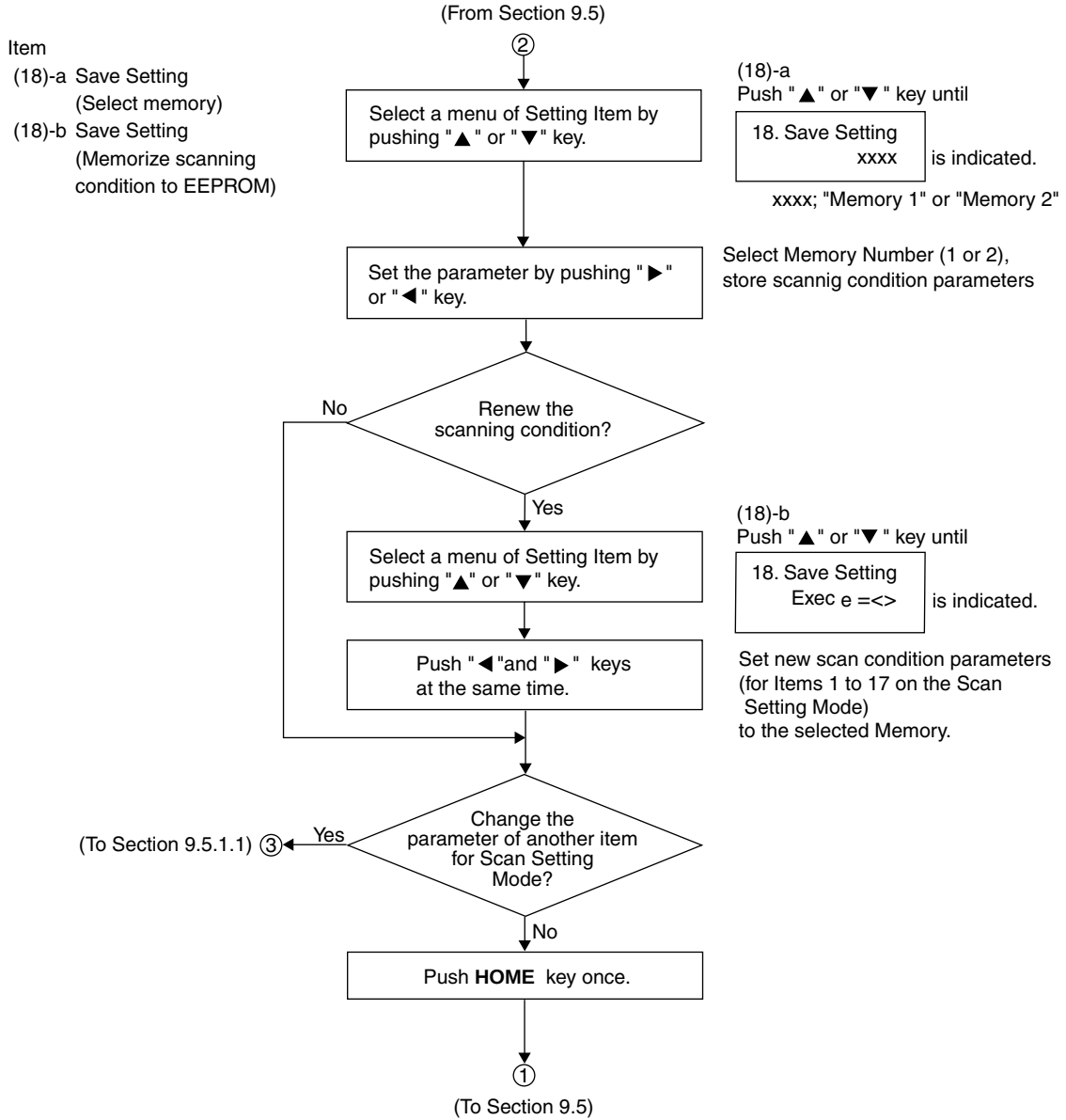
Remarks
(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.
Note
***1 : Setting content (A4 or Ltr) on this item 5 depends on "Set language".**

Selected Mode		Detect Size
English A4	→	A4
English Letter	→	Letter
Deutsh A4	→	A4
ニホンゴ A4	→	A4

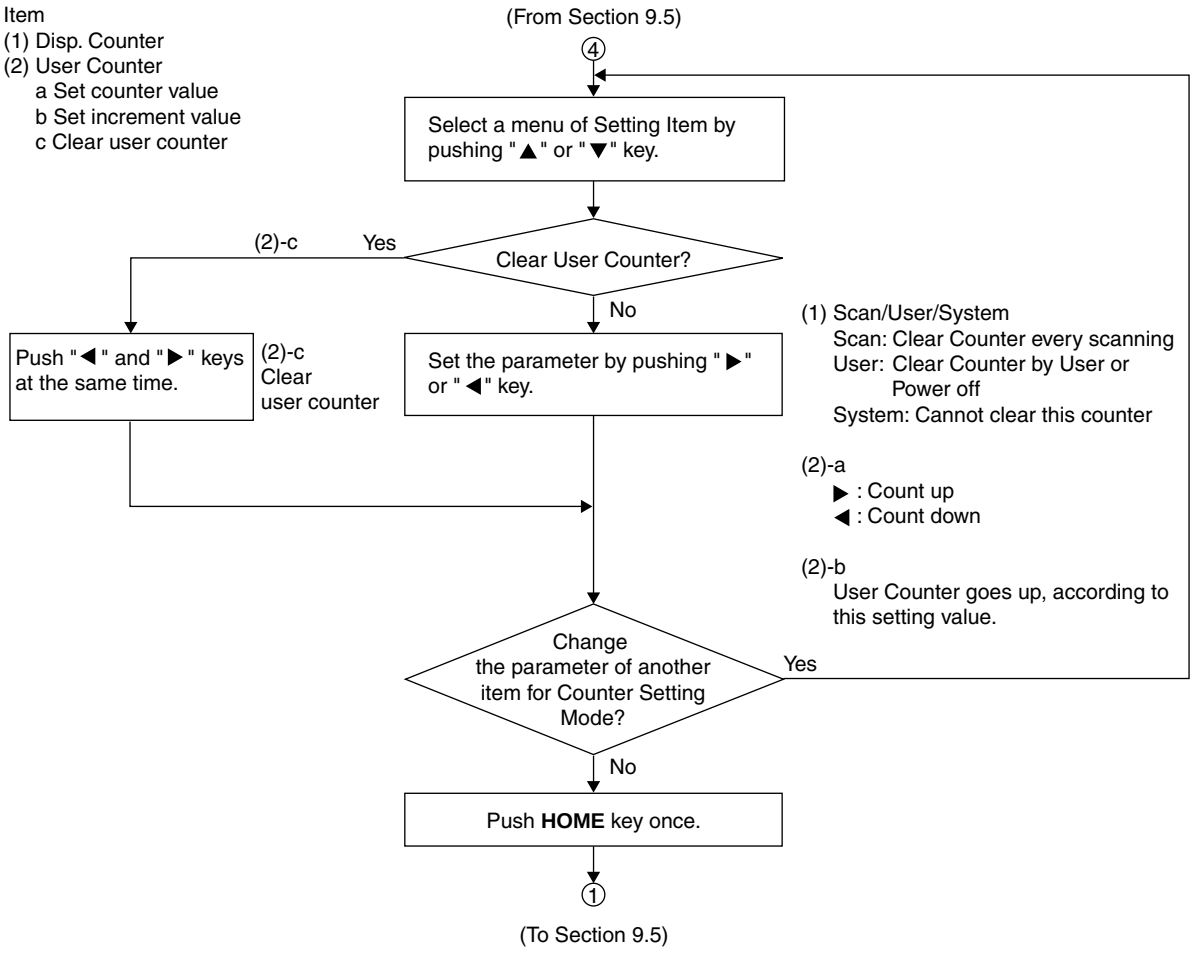
No	Item	Setting Contents												Default	Factory Default	Remarks
1-a	Feed Test (Set Resolution and Test)	100 – 600	START											200	–	(5)
1-b	Feed Test (Set Size and Test)	A4	A5	A6	B4	B5	B6	B.C.	Max	Ltr	Lgl	A3	START	A4	–	(5)
1-c	Feed Test (Set scanning type and Test)	Duplex	Simplex	START										Duplex	–	(5)
1-d	Feed Test (Set image type and Test)	Binary	DTH	Gray	Color	M.S. Color	START							Binary	–	(5)
1-e	Feed Test (Set Length Control and Test)	LC OFF	LC ON	START										LC ON	–	(5)
1-f	Feed Test (Set Mode and Test)	Mode 1	Mode 2	Mode 3	START									Mode1	–	(5)
2-a	CCD Test (F.Lamp)	OFF	1 – 15	START										–	–	(5)
2-b	CCD Test (F0Amp)	0 – 255	START											–	–	(5)
2-c	CCD Test (F1Amp)	0 – 255	START											–	–	(5)
2-d	CCD Test (B.Lamp)	OFF	1 – 15	START										–	–	(5)
2-e	CCD Test (B0Amp)	0 – 255	START													(5)
2-f	CCD Test (B1Amp)	0 – 255	START											–	–	(5)
3	CCD Black Level	START												–	–	(5)
4	Document Sensor (Check each document sensor condition)	START												–	–	(5)
5	Sensor Sensitive Level	START												–	–	(5)
6	Door & Home Sensor	START												–	–	(5)
7	Hopper Test	START												–	–	(5)
8	Conveyor Motor	START												–	–	(5)
9	Feed Motor	START												–	–	(5)
10	Aging	START												–	–	(5)
11-a	SO DIMM SPD (Information)													–	–	(2)
11-b	DIMM SPD (Information)													–	–	(2)
12-a	Memory Test (MAIN)	START												–	–	(5)
12-b	Memory Test (SCSI)	START												–	–	(5)
12-c	Memory Test (SO DIMM)	START												–	–	(5)
12-d	Memory Test (DIMM)	START												–	–	(5)
13	Sleep Mode	START												–	–	(5)
14	Init.EEPROM *1	START												–	–	–
15	Double Feed Test (Check double feed sensitivity after setting input-level)	1 – 255	START											–	–	(5)
16	Adjust Double Feed Detector	START												–	–	(4)
17	Adjust Length automatically	START												–	–	(4)
18	Adjust Front V.Position automatically	START												–	–	(4)
19	Adjust Front Width automatically	START												–	–	(4)
20	Adjust Front H.Position automatically	START												–	–	(4)
21	Adjust Back V.Position automatically	START												–	–	(4)
22	Adjust Back Width automatically	START												–	–	(4)
23	H.Position automatically	START												–	–	(4)
24	Adjust All position & Length automatically	START												–	–	(4)
25	Adjust Shading	START												–	–	(4)

Remarks
(1) : Parameter setting by user
(2) : Status Indication
(3) : Parameter setting by service-man
(4) : Adjustment
(5) : Diag.
Note
***1 : Only perform "Init. EEPROM" when EEPROM Error (F34) occurs.**
When "Init. EEPROM" is executed, all adjustments in Service Mode 1 and Service Mode 2 need to be confirmed.

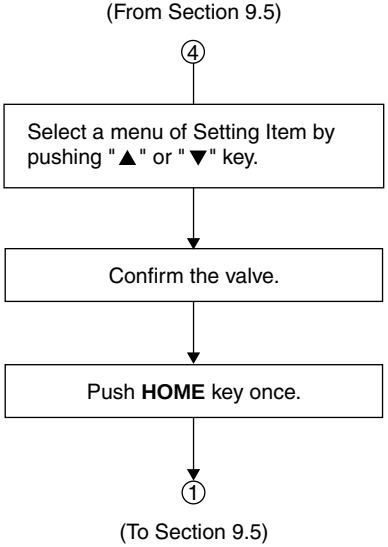

(From Section 9.5)
Item (From Section 9.5.1.2)
(1) F. Color Drop
(2) F. Brightness
(3) F. Emphasis
(4) F. Contrast
(5) F. Halftone
(6) B. Color Drop
(7) B. Brightness
(8) E. Emphasis
(9) B. Contrast
(10) B. Halftone
(11) Noise Reduction
(12) Black Line Remove
(13) Scanning Mode
(14) Double Feed
(15) Double Feed (Action after detecting double feed)
(16) Double Feed (Set Sensitivity)
(17) Feed Speed
(19) Load Setting for scan condition
②
③
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set the parameter by pushing "◀" or "▶" key.
Change the parameter of another item?
Yes
No
Push HOME key once.
①
(To Section. 9.5)
(1) Host/Green/Red/Blue
(2) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(3) Host/Smooth/None/Low/Medium/High
(4) Host/L4/L3/L2/L1/Norm/H1/H2/H3/H4
(5) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Harftone dot 64/ Error diffusion/Dynamic Thres.
(6) Host/Green/Red/Blue
(7) Host/D4/D3/D2/D1/Norm/L1/L2/L3/L4
(8) Host/Smooth/None/Low/Medium/High
(9) Host/L4/L3/L2/L1/Norm/H1/H2/H3/H4
(10) Host/Binary/Bayer dither 64/Bayer dither 16/Halftone dot 32/Halftone dot 64/ Error diffusion/Dynamic Thres.
(11) Host/None/B1x1/B2x2/B3x3/B4x4/B5x5/B6x6/ W1x1/W2x2/W3x3/W4x4/W5x5/W6x6
(12) Host/Enable/Disable
(13) Host/Fit to Page/Actual
(14) Host/Detect/Not detect
(15) Host/Stop/Buzzer
(16) Host/Low Sensitivity/Normal/High Sensitivity
(17) Host/Slow/Normal
(19) Default/Memory 1/Memory 2


(From Section 9.5)
②
Item
(18)-a Save Setting
(Select memory)
(18)-b Save Setting
(Memorize scanning
condition to EEPROM)
Select a menu of Setting Item by pushing "▲" or "▼" key.
(18)-a
Push "▲" or "▼" key until
18. Save Setting
xxxx
is indicated.
xxxx; "Memory 1" or "Memory 2"
Set the parameter by pushing "▶" or "◀" key.
Select Memory Number (1 or 2), store scannig condition parameters
No
Renew the scanning condition?
Yes
Select a menu of Setting Item by pushing "▲" or "▼" key.
(18)-b
Push "▲" or "▼" key until
18. Save Setting
Exec e =<>
is indicated.
Push "◀"and "▶" keys at the same time.
Set new scan condition parameters (for Items 1 to 17 on the Scan Setting Mode) to the selected Memory.
(To Section 9.5.1.1) ③
Yes
Change the parameter of another item for Scan Setting Mode?
No
Push HOME key once.
①
(To Section 9.5)

Item
(1) Disp. Counter
(2) User Counter
a Set counter value
b Set increment value
c Clear user counter


(From Section 9.5)
④
Select a menu of Setting Item by pushing "▲" or "▼" key.
(2)-c
Yes
Clear User Counter?
No
Push "◀" and "▶" keys at the same time.
(2)-c Clear user counter
Set the parameter by pushing "▶" or "◀" key.
(1) Scan/User/System
Scan: Clear Counter every scanning
User: Clear Counter by User or Power off
System: Cannot clear this counter
(2)-a
▶ : Count up
◀ : Count down
(2)-b
User Counter goes up, according to this setting value.
Change the parameter of another item for Counter Setting Mode?
Yes
No
Push HOME key once.
①
(To Section 9.5)

(3) System Counter



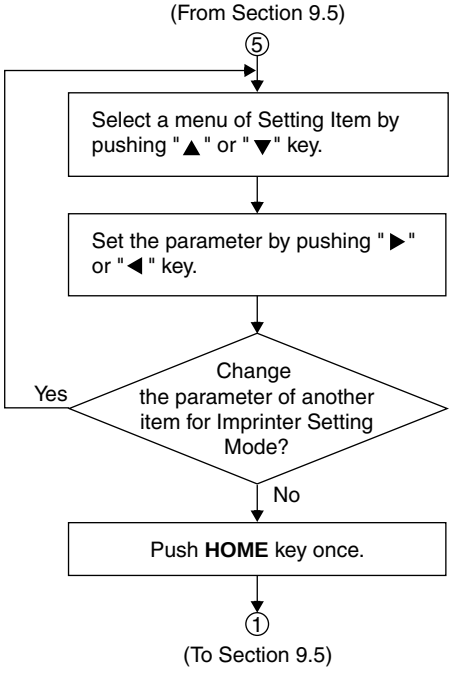
Item

(11) Post Imprint (Select contents to print)

(12) Post Position (Set starting position to be printed)

(13) Post Font

(14) Post Rotate


(From Section 9.5)
⑤
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set the parameter by pushing "▶" or "◀" key.
Change the parameter of another item for Imprinter Setting Mode?
Yes
No
Push **HOME** key once.
①
(To Section 9.5)

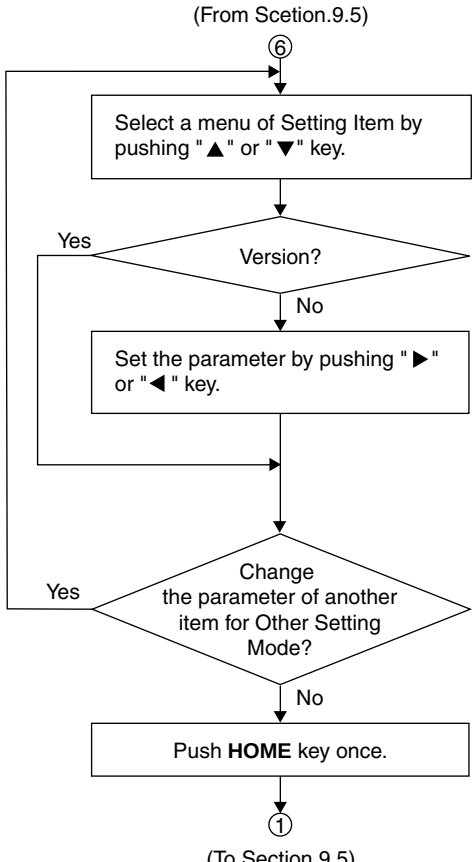
(11) Host: Printing is executed, controlled by Host.
Count: The value indicated on LCD is printed.

(12) Printed position for Post Imprinter : Host/0-72char.

(13) Host ⟺ Bold ⟺ Normal

(14) Host ⟺ 0˚⟺90˚⟺180˚⟺270˚

Item
(1) Firmware version
a. MAIN
b. SCSI (I/F)
c. Post-Imprinter
(2) Buzzer
(3) SCSI ID
(4) Terminator
(5) Wide SCSI
(6) Transfer Rate
(9) Product ID
(10) Sleep Mode
(Set period to enter in sleep mode)



(1) (a)-(e) Firmware version indication

Ex. Version X 1.00

- X → "M" Indication MAIN Board Firmware Version
- X → "S" Indication SCSI (I/F) Board Firmware Version
- X → "B" Indication Post-Imprinter Firmware Version

(2) ON/OFF

(3) 0-15 or 0-7

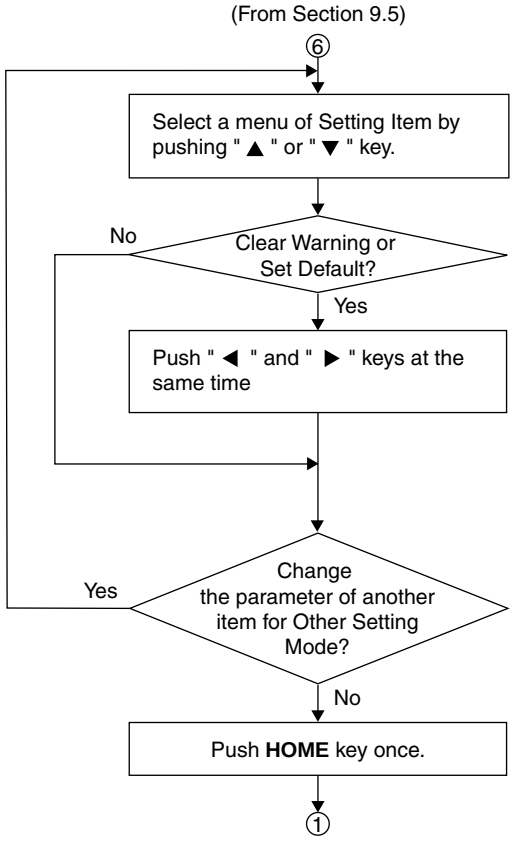
(4), (5) Disable/Enable

(6) 20M Byte/sec/10M Byte/sec

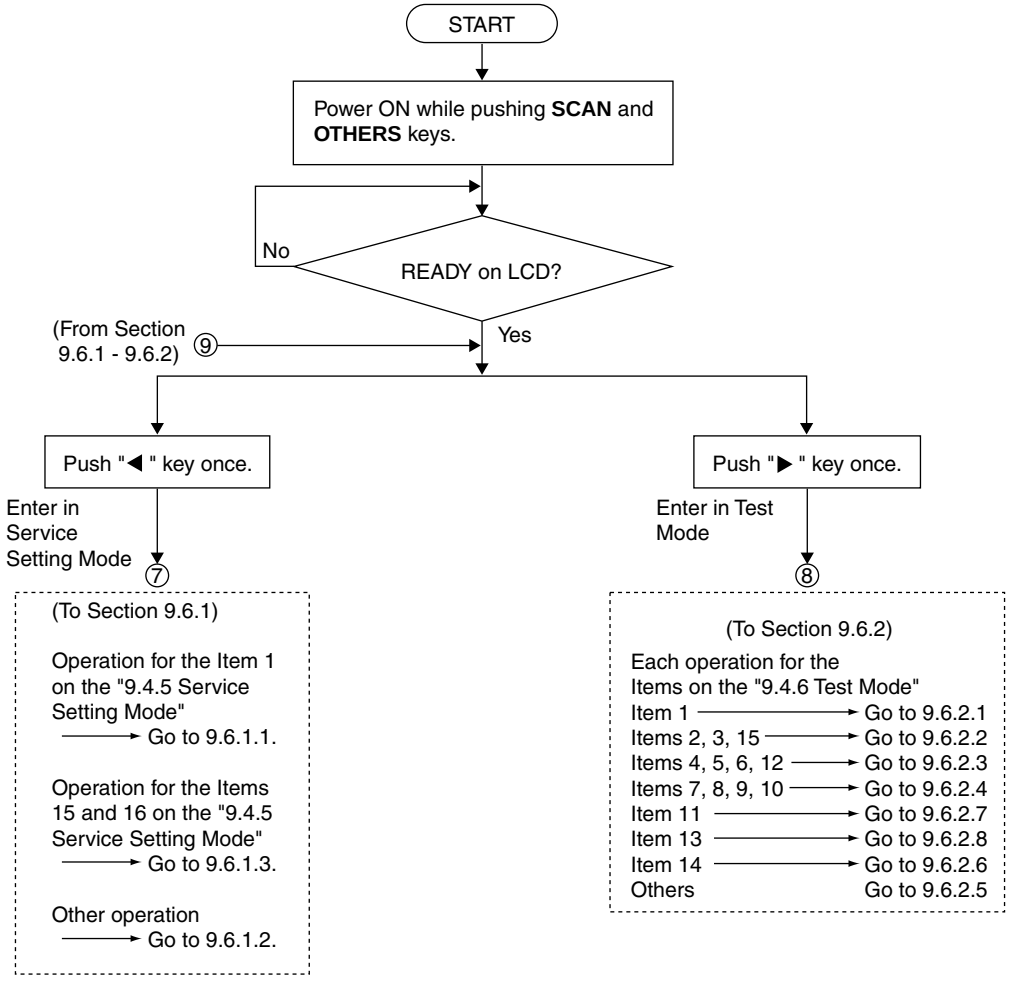
(9) KV-SS905C ⟺KV-S2065⟺KV-S855⟺KV-S2055⟺ KV-S6055⟺KV-S6045 ⟺

(10) Disable/1min-60min

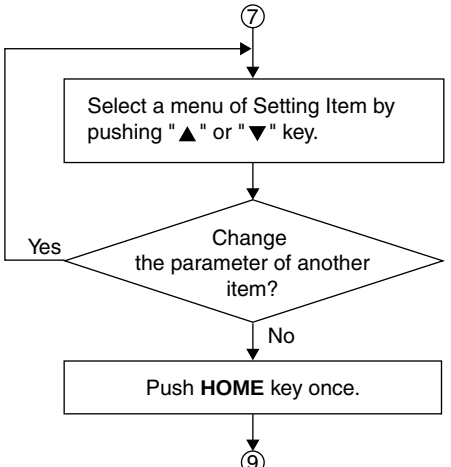
Item
(7) Clean Roller
a. Disp. %
b. Clear warning for "Clean Roller"
(8) Replace Roller
a. Disp. %
b. Clear warning for "Replace Roller"


(From Section 9.5)
⑥
Select a menu of Setting Item by pushing " ▲ " or " ▼ " key.
No
Clear Warning or Set Default?
Yes
Push " ◀ " and " ▶ " keys at the same time
Yes
Change the parameter of another item for Other Setting Mode?
No
Push HOME key once.
①
(To Section 9.5)

(7)-a : Indicates % based on the value of "Clean Roller" in Service Mode 1
(8)-a : Indicates % based on the value of "Replace Roller" in Service Mode 1
(7)-b : Clear Warning
(8)-b : Clear Warning


START
Power ON while pushing **SCAN** and **OTHERS** keys.
No
READY on LCD?
(From Section 9.6.1 - 9.6.2)
⑨
Yes
Push "◀ " key once.
Enter in Service Setting Mode
⑦
(To Section 9.6.1)
Operation for the Item 1 on the "9.4.5 Service Setting Mode"
→ Go to 9.6.1.1.
Operation for the Items 15 and 16 on the "9.4.5 Service Setting Mode"
→ Go to 9.6.1.3.
Other operation
→ Go to 9.6.1.2.
Push "▶ " key once.
Enter in Test Mode
⑧
(To Section 9.6.2)
Each operation for the Items on the "9.4.6 Test Mode"
Item 1 → Go to 9.6.2.1
Items 2, 3, 15 → Go to 9.6.2.2
Items 4, 5, 6, 12 → Go to 9.6.2.3
Items 7, 8, 9, 10 → Go to 9.6.2.4
Item 11 → Go to 9.6.2.7
Item 13 → Go to 9.6.2.8
Item 14 → Go to 9.6.2.6
Others Go to 9.6.2.5

(From Section 9.6)



(1) PCB Revision
a. MAIN
b. SCSI (I/F)
c. DRIVER
d. F.CCD
e. B.CCD

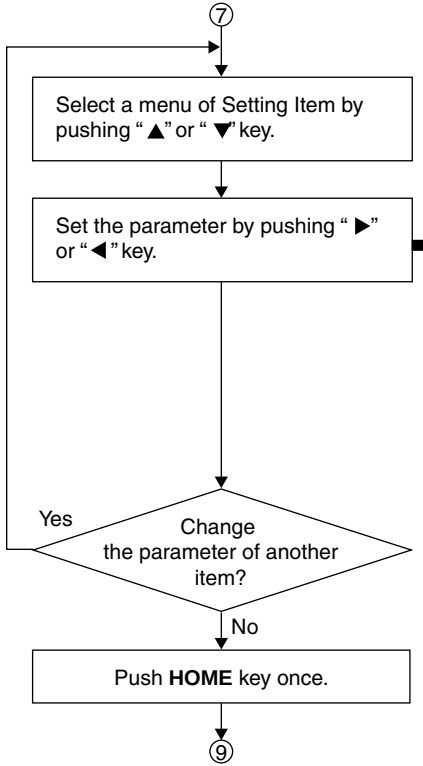
(1) PCB Revision
Ex.

PCB Revision No.	
SCSI	01

(To Section 9.6)

(From Section 9.6)

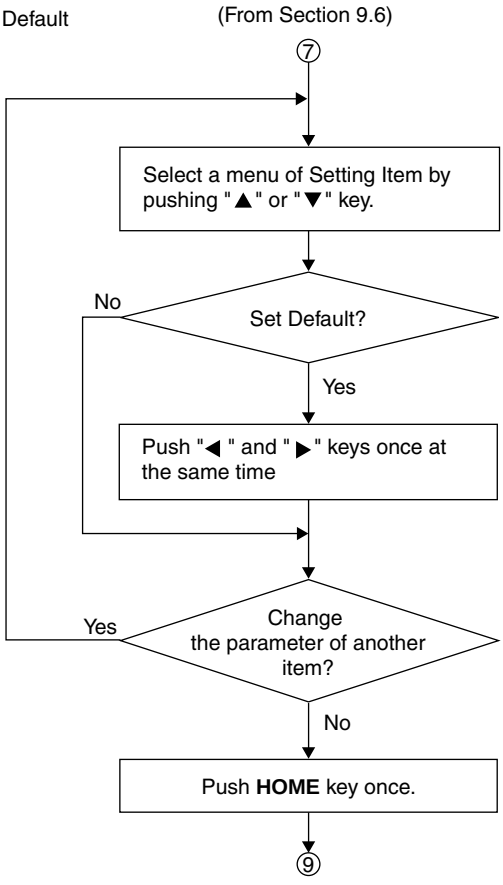
(2) Clean Roller (Set counter for roller cleaning timing.)
(3) Replacing Roller (Set counter for replacement timing.)
(4) Detect Size
(5) Adjust value for Paper Length manually
(6) Adjust value for Front V. Position manually
(7) Sensor Delay 1 (Adjust value for Sensor Delay OFF→ON manually)
(8) Sensor Delay 2 (Adjust value for Sensor ON→OFF manualy)
(9) Sensor Hysteresis (Adjust value for Sensor Switching ON→OFF manually)
(10) Adjust value for Front Width manually
(11) Adjust value for Front H. Position manually
(12) Adjust value for Back V. Position manually
(13) Adjust value for Back Width manually
(14) Adjust value for Back H. Position manually


⑦
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set the parameter by pushing "▶" or "◀" key.
Yes
Change the parameter of another item?
No
Push **HOME** key once.
⑨

(2)	Set Paper scanning numbers to clean roller. Default; 20,000_
(3)	Set paper scanning numbers to replace roller Default; 300,000_
(4)	A4/Letter
(5)	▶ ; 0.1% longer ◀ ; 0.1% shorter
(6)	▶ ; 0.1mm to lower side ◀ ; 0.1mm to upper side
(7), (8), (9)	128-255 ▶ ; 0.1msec longer delay-time ◀ ; 0.1msec shorter delay-time
(10)	▶ ;0.1% Reduce ◀ ;0.1% Expand
(11)	▶ ; 0.1mm to the right ◀ ; 0.1mm to the left
(12)	Same as (6)
(13)	Same as (10)
(14)	Same as (11)

(To Section 9.6)

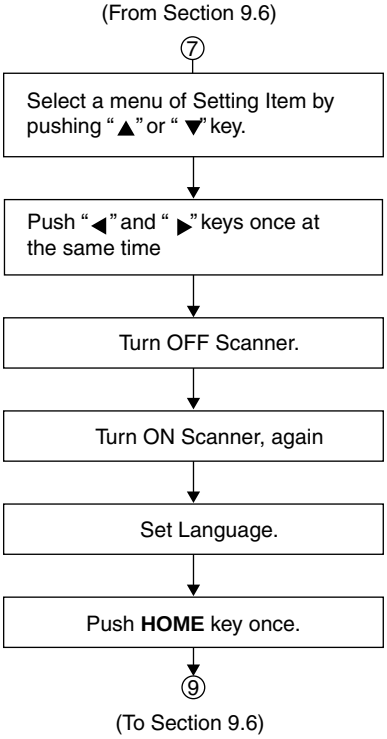
(15) Set Default



Pushing "◀ " and "▶ " keys changes setting on LCD into default except for the following contents.

- SCSI ID 0-7 or 0-15
- Terminator ON/OFF
- System Counter
- Adjust value for scanning position
- Language on LCD
- Lamp (Set lamp color)
- Double Feed (Set detection level)
- Transfer Rate
- Sensor Delay (Adjust value for Sensor Delay manually)

(16) Reset Language

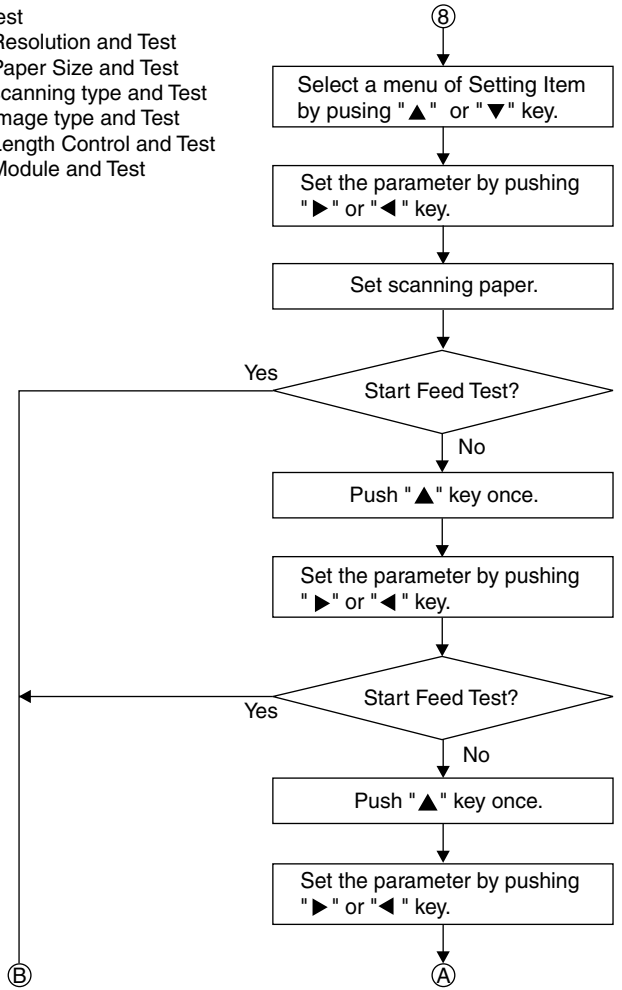

(From Section 9.6)
⑦
Select a menu of Setting Item by pushing "▲" or "▼" key.
Push "◀" and "▶" keys once at the same time
Turn OFF Scanner.
Turn ON Scanner, again
Set Language.
Push **HOME** key once.
⑨
(To Section 9.6)

By operating this, Item 5 "Detect Size" (A4 or Letter) is set at the same time.

Note: Refer to "9.1 Front Panel Specifications". Setting the language)

(From Section 9.6)

(1) Feed Test
- a. Set Resolution and Test
- b. Set Paper Size and Test
- c. Set scanning type and Test
- d. Set image type and Test
- e. Set Length Control and Test
- f. Set Module and Test



a.

01 Feed Test
Res. xxx START

xxx : 100-600; Default 200
▶ ; 10 step-up every pushing
◀ ; 10 step-down every pushing

b.

01 Feed Test
Size

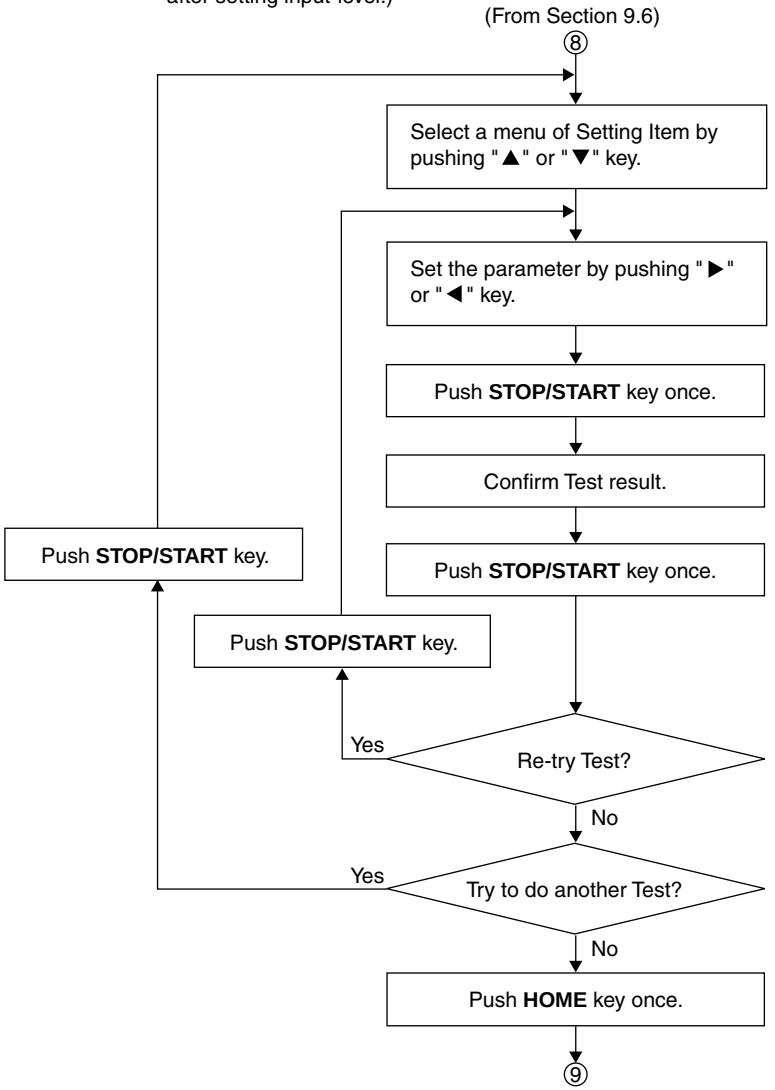
A4/A5/A6/B4/B5/B6/MAX/Ltr/
Lgl/A3
Ltr : Letter
Lgl: Legal

c.

01 Feed Test
xxx

xxx : Simplex or Duplex

(2)-a : CCD Test (F.Lamp)
(2)-b : CCD Test (Set gain for F0 Amp)
(2)-c : CCD Test (Set gain for F1 Amp and test)
(2)-d : CCD Test (B.Lamp)
(2)-e : CCD Test (Set gain for B0 Amp and test)
(2)-f : CCD Test (Set gain for B1 Amp and test)
(3) : CCD Black Level
(15) : Double Feed Test
(Check double feed sensitivity after setting input-level.)



(2)-a, d

Input value	Good results
14	200 or more
OFF	100 or less

∗ **Note: Before executing (2)-a, or (2)-d, input values for (2)-b, (2)-c, (2)-e, (2)-f should be all "80". And, also turn the reference plate to the white side.**

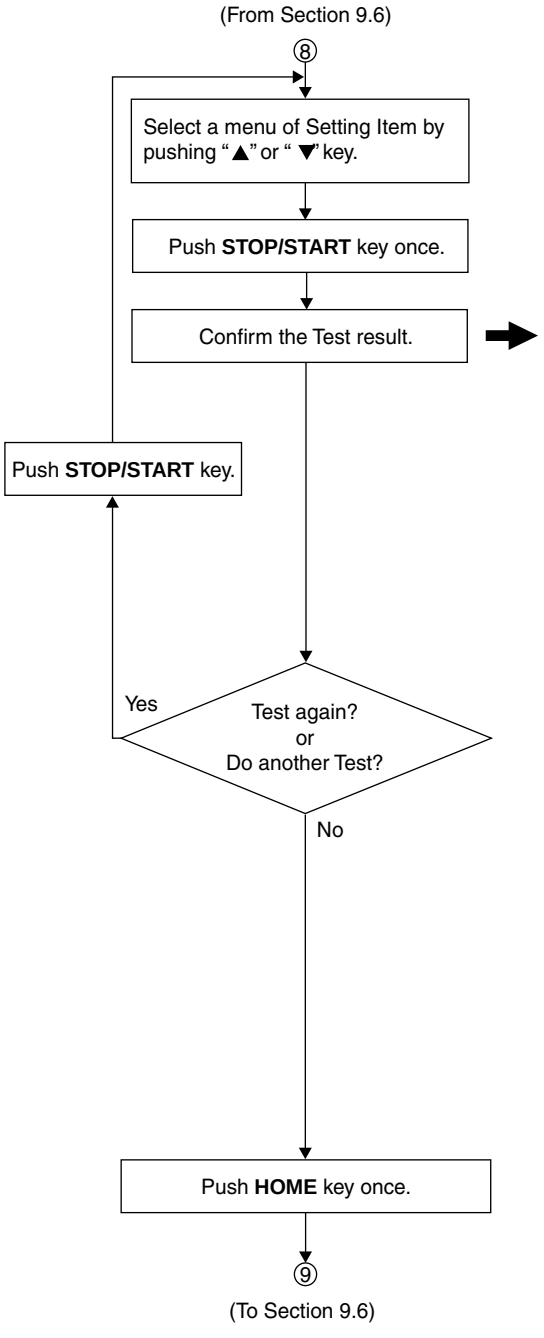
(3)

Input value	Good results
No setting	Except for 127 or 255

(15)

Input value	Good results
120	800 or more
40	400 or less

(4) Document Sensor
(Check each document sensor condition.)
(5) Sensor Sensitive Level
(6) Door & Home Sensor
(12)-a Memory Test (MAIN)
(12)-b Memory Test (SCSI)
(12)-c Memory Test (SO DIMM)
(12)-d Memory Test (DIMM)



Select Sensor Test ((4) or (5) or (6) or (12) or (13))

((4) or (5) or (6) or (12) or (13))
Execute Sensor Test

(4)

P	W	L	R	S	J	E	e	l	r	1	2	3	4	5					
1	0	1	0	1	1	0	1	0	0	0	0	0	0	0					

P : Status of Paper Detector
W : Status of Waiting Sensor
L : Status of Skew [L] Sensor
R : Status of Skew [R] Sensor
S : Status of Starting Position Sensor
J : Status of Paper Jam Sensor
E : Status of Exit [Front] Sensor
e : Status of Exit [Rear] Sensor
l : Status of Edge Limit [L] Sensor
r : Status of Edge Limit [R] Sensor
∗ When this status value is "1", it means the paper is in this scanner.

	1	2	3	4	5
A3	0	0	0	0	0
B4	1	0	0	0	0
A4 (letter)	1	1	0	0	0
	0	1	0	0	0
B5	0	1	1	0	0
A5	0	0	1	0	0
B6	0	0	1	1	0
A6	0	0	0	1	0
	0	0	0	1	1
BC	0	0	0	0	1

Note ∗ Each sensor position
⇒ Refer to see. 5.3

(5)

P	W	L	R	S	J	E	e	l	r	1	2	3	4	5					
x	3	3	3	3	3	3	4	3	3	x	x	x	x	x					

P, 1, 2, 3, 4, 5, : (X:No range) : Neglect this information.
W : Status of Waiting Sensor : Range 0-F (F:Darker)
L : Status of Skew [L] Sensor : Range 0-F (F:Darker)
R : Status of Skew [R] Sensor : Range 0-F (F:Darker)
S : Status of Starting Position Sensor : Range 0-F (F:Darker)
J : Status of Paper Jam Sensor : Range 0-F (F:Darker)
E : Status of Exit [Front] Sensor : Range 0-F (F:Darker)
e : Status of Exit [Rear] Sensor : Range 0-F (F:Darker)
l : Status of Edge Limit [L] Sensor : Range 0-F (F:Darker)
r : Status of Edge Limit [R] Sensor : Range 0-F (F:Darker)

(6)

F	B	T	L					H		B		P		R					
0	1	0	0					0		1		0		0					

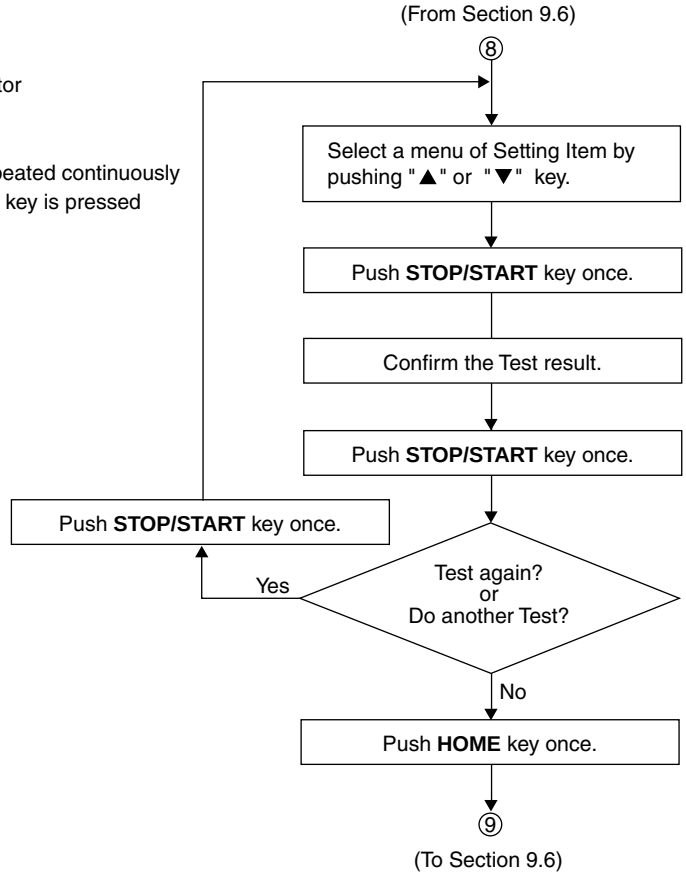
F : Status of Front Door
B : Status of Back Door
T : Status of Post Imprinter Door
L : Status of Lamp Door

Door name to open	F	B	T	L
Front Door (F)	1	1	0	1
Post Imprinter Door (T)	0	0	1	0
Lamp Door (L)	0	0	0	1
Back Door (B)	0	1	0	1

H : Status of Hopper Sensor (Upper) position (Value "1" : Upper position)
B : Status of Hopper Sensor (Lower) position (Value "1" : Lower position)

P : Status of Pointer Detector (Value "0" means straight-pass mode.)
R : Status of Retard Roller Position (Value "1" means Retard position is released)
(12) : No Error or Error Message

∗(7) Hopper Test
∗(8) Conveyor Motor
∗(9) Feed Motor
(10) Aging
∗The test will be repeated continuously until STOP/START key is pressed

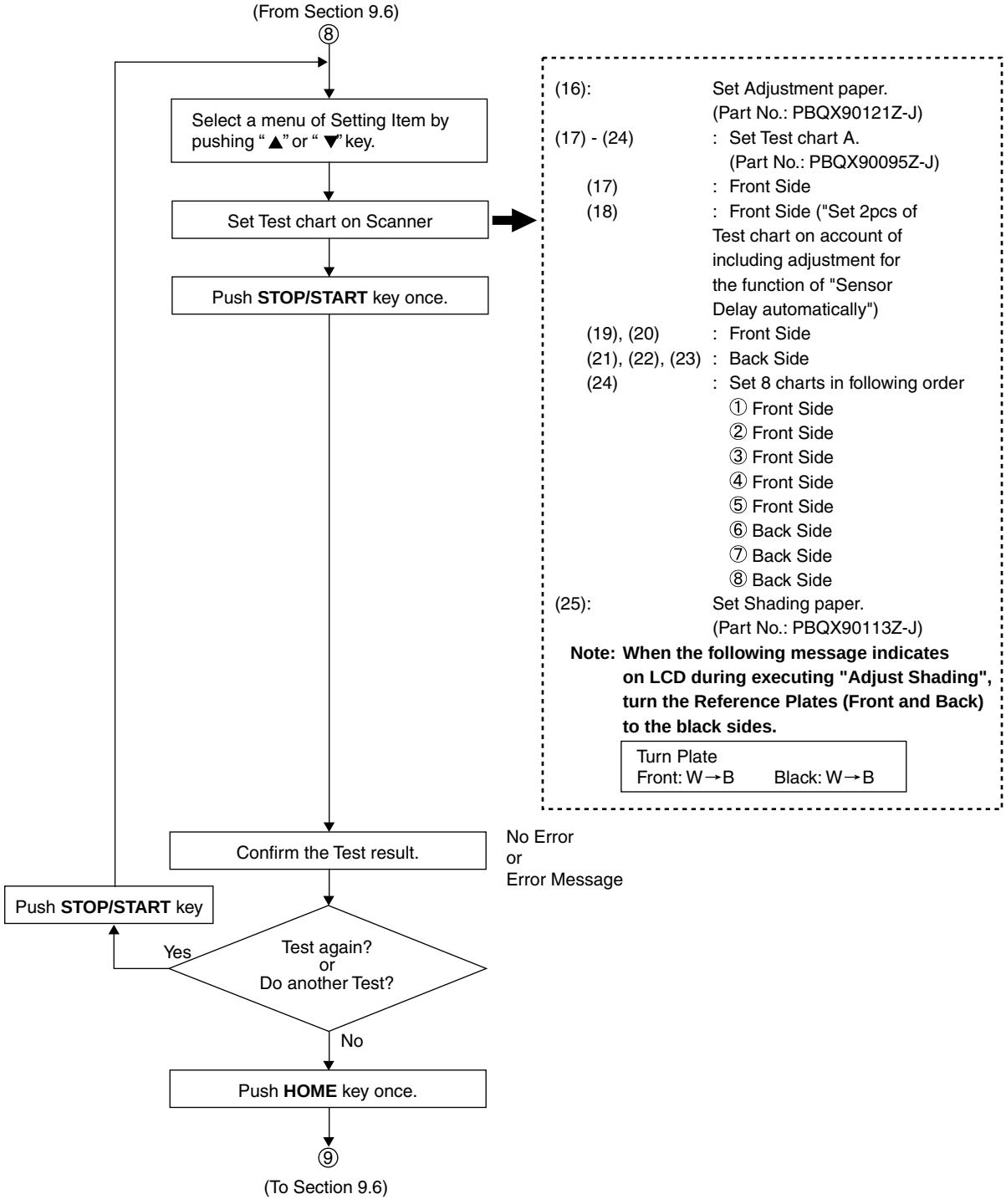


(16) Adjust Double Feed Detector
(17) Adjust Length automatically
(18) Adjust Front V. Position automatically
(19) Adjust Front Width automatically
(20) Adjust Front H. Position automatically
(21) Adjust Back V. Position automatically
(22) Adjust Back Width automatically
(23) Adjust Back H. Position automatically
(24) Adjust All Position & Length automatically
(25) Adjust Shading

Note:

1. Before adjusting shading, be sure to clean the scanning glasses, reference plate, rollers, and sensors shown on Sec 7.2. to 7.4..

2. Before adjusting shading, be sure to check both Reference Plates (Front and Back) face to the white sides. (In case of the black sides, turn the Reference Plates according to 6.7..)

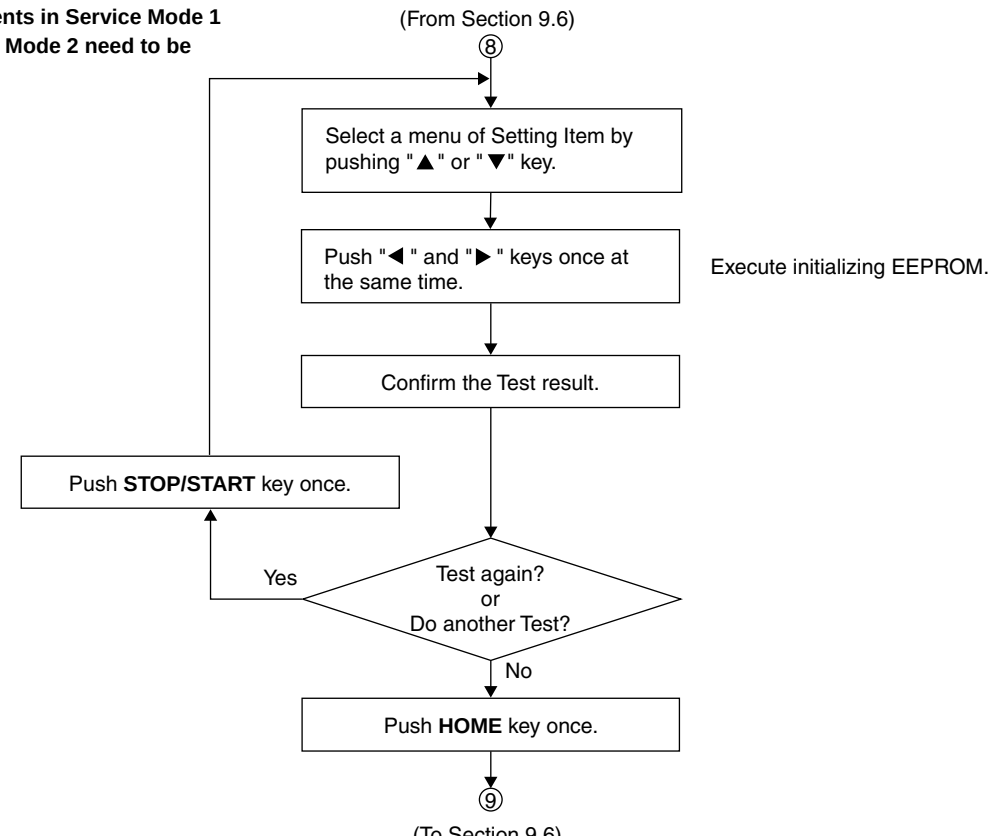

(From Section 9.6)
⑧
Select a menu of Setting Item by pushing "▲" or "▼" key.
Set Test chart on Scanner
Push **STOP/START** key once.
(16): Set Adjustment paper. (Part No.: PBQX90121Z-J)
(17) - (24) : Set Test chart A. (Part No.: PBQX90095Z-J)
(17) : Front Side
(18) : Front Side ("Set 2pcs of Test chart on account of including adjustment for the function of "Sensor Delay automatically")
(19), (20) : Front Side
(21), (22), (23) : Back Side
(24) : Set 8 charts in following order
① Front Side
② Front Side
③ Front Side
④ Front Side
⑤ Front Side
⑥ Back Side
⑦ Back Side
⑧ Back Side
(25): Set Shading paper. (Part No.: PBQX90113Z-J)
Note: When the following message indicates on LCD during executing "Adjust Shading", turn the Reference Plates (Front and Back) to the black sides.
Turn Plate
Front: W→B Black: W→B
Confirm the Test result.
No Error or Error Message
Push **STOP/START** key
Yes
Test again? or Do another Test?
No
Push **HOME** key once.
⑨
(To Section 9.6)

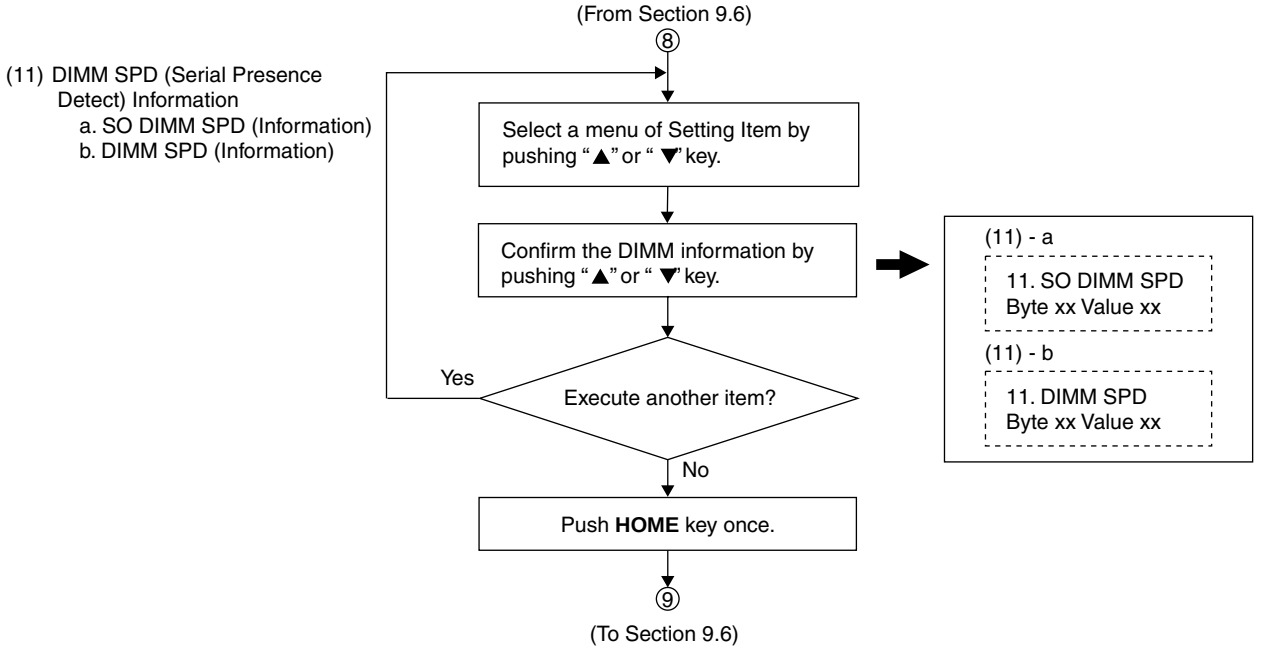
(14) Init. EEPROM

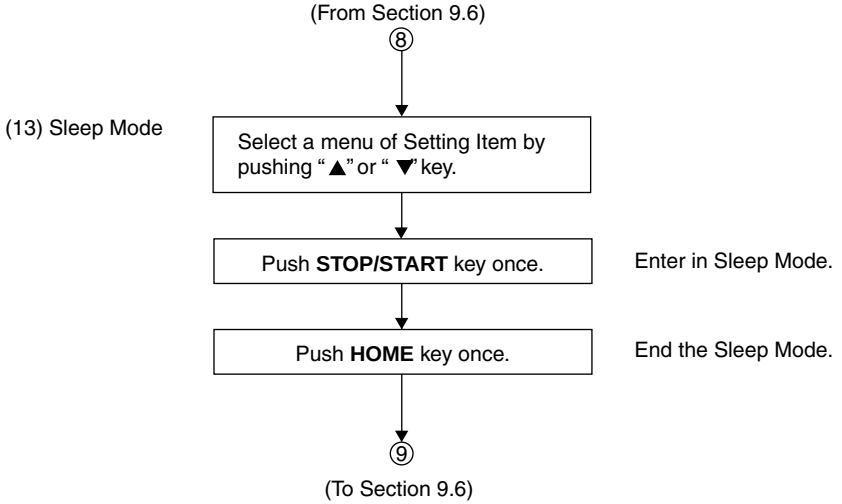
*Please be very careful, as this test operation initializes all data.

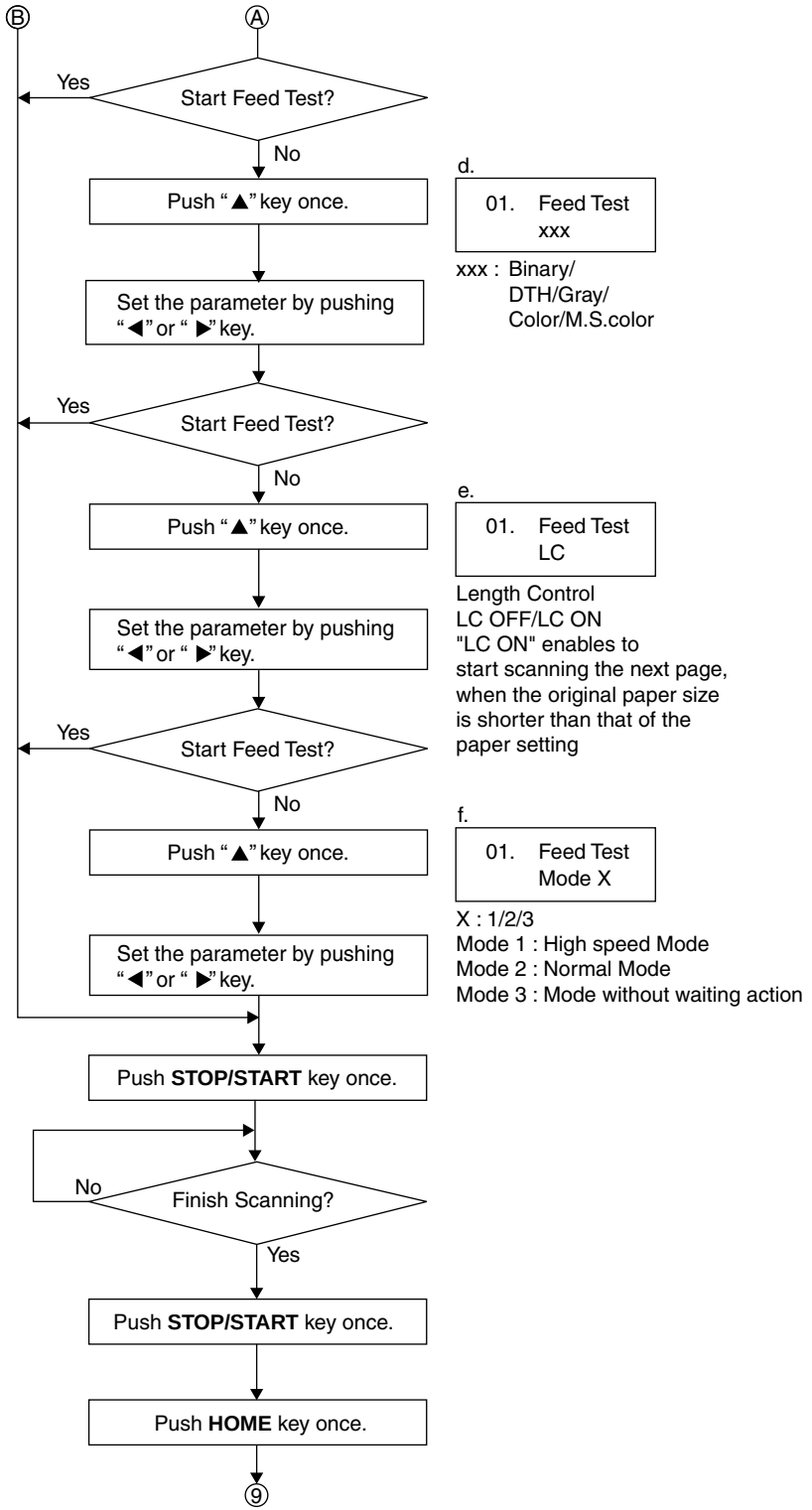
Note:

- **Only perform "Init. EEPROM" when EEPROM Error (F34) occurs.**
- **When "Init. EEPROM" is executed, all adjustments in Service Mode 1 and Service Mode 2 need to be confirmed.**

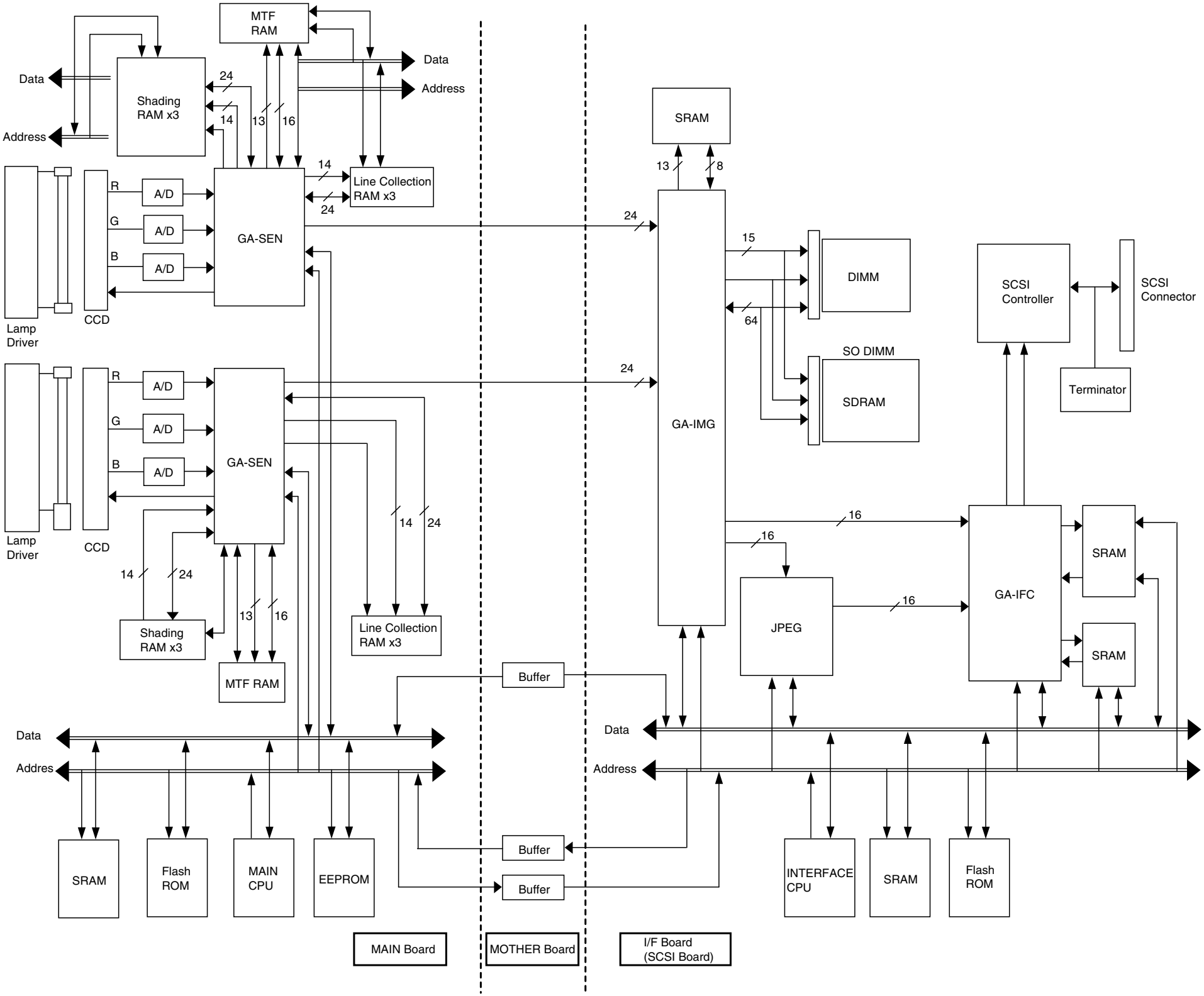



(From Section 9.6)
⑧
(11) DIMM SPD (Serial Presence Detect) Information
a. SO DIMM SPD (Information)
b. DIMM SPD (Information)
Select a menu of Setting Item by pushing "▲" or "▼" key.
Confirm the DIMM information by pushing "▲" or "▼" key.
(11) - a
11. SO DIMM SPD
Byte xx Value xx
(11) - b
11. DIMM SPD
Byte xx Value xx
Yes
Execute another item?
No
Push HOME key once.
⑨
(To Section 9.6)

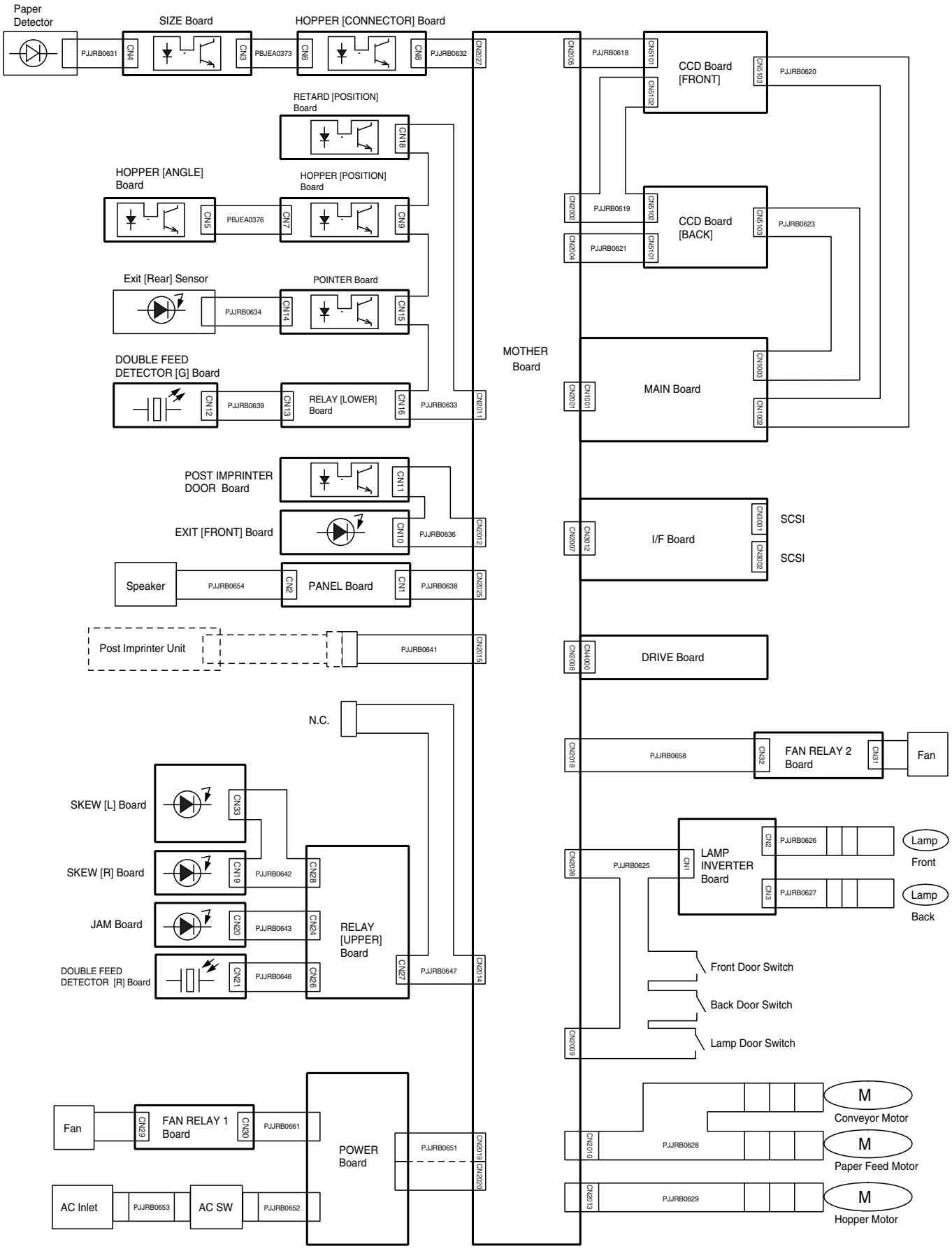

(From Section 9.6)
⑧
(13) Sleep Mode
Select a menu of Setting Item by pushing "▲" or "▼" key.
Push **STOP/START** key once.
Enter in Sleep Mode.
Push **HOME** key once.
End the Sleep Mode.
⑨
(To Section 9.6)



(To Section 9.6)



Block diagram of image processing


Paper Detector
SIZE Board
HOPPER [CONNECTOR] Board
PJJRB0631
CN4
CN3
PBJEA0373
CN6
CN8
PJJRB0632
CN2027
RETARD [POSITION] Board
CN18
HOPPER [ANGLE] Board
HOPPER [POSITION] Board
CN5
PBJEA0376
CN7
CN9
Exit [Rear] Sensor
POINTER Board
PJJRB0634
CN14
CN15
DOUBLE FEED DETECTOR [G] Board
CN12
PJJRB0639
CN13
RELAY [LOWER] Board
CN16
PJJRB0633
CN2011
POST IMPRINTER DOOR Board
CN11
EXIT [FRONT] Board
CN10
PJJRB0636
CN2012
Speaker
PJJRB0654
CN2
PANEL Board
CN1
PJJRB0638
CN2025
Post Imprinter Unit
PJJRB0641
CN2015
N.C.
SKEW [L] Board
CN33
SKEW [R] Board
CN19
PJJRB0642
CN128
JAM Board
CN20
PJJRB0643
CN124
RELAY [UPPER] Board
DOUBLE FEED DETECTOR [R] Board
CN21
PJJRB0646
CN29
CN27
PJJRB0647
CN2014
Fan
CN29
FAN RELAY 1 Board
CN30
PJJRB0661
AC Inlet
PJJRB0653
AC SW
PJJRB0652
POWER Board
PJJRB0651
CN2019
CN2020
MOTHER Board
CN3205
PJJRB0618
CN5101
CN5102
CCD Board [FRONT]
CN5103
PJJRB0620
CN2002
PJJRB0619
CCD Board [BACK]
PJJRB0623
CN3004
PJJRB0621
CN1003
CN2001
CN1001
MAIN Board
CN1002
CN3001
SCSI
CN2007
CN3012
I/F Board
CN3002
SCSI
CN2008
CN4001
DRIVE Board
CN2018
PJJRB0658
CN32
FAN RELAY 2 Board
CN31
Fan
CN2026
PJJRB0625
CN1
LAMP INVERTER Board
CN2
PJJRB0626
Lamp
Front
CN3
PJJRB0627
Lamp
Back
Front Door Switch
Back Door Switch
Lamp Door Switch
CN2009
CN2010
PJJRB0628
M
Conveyor Motor
M
Paper Feed Motor
CN2013
PJJRB0629
M
Hopper Motor

CN2005 (MOTHER) – CN5101 (CCD [FRONT])

Pin No.		Signal Name	Description
CN2005	CN5101		
1	1	5V	+5V
2	2	GND	Ground
3	3	FP1	CCD Clock (12.5MHz)
4	4	GND	Ground
5	5	FP2	CCD Clock (12.5MHz)
6	6	GND	Ground
7	7	FSH	CCD Clock (12.5MHz)
8	8	GND	Ground
9	9	FRST	CCD Clock (12.5MHz)
10	10	GND	Ground
11	11	FCP	CCD Clock (12.5MHz)
12	12	GND	Ground
13	13	CCDVER1	PCB Rev. Detect 1
14	14	CCDVER2	PCB Rev. Detect 2

CN2002 (MOTHER) – CN5102 (CCD [FRONT]) / CN5102 (CCD [BACK])

Pin No.			Signal Name	Description
CN2002	CN5102	CN5102		
1	1	–	12V	+12V
2	2	–	GND	Ground
3	3	–	–10V	–10V
4	4	–	GND	Ground
5	–	1	12V	+12V
6	–	2	GND	Ground
7	–	3	–10V	–10V
8	–	4	GND	Ground

CN2004 (MOTHER) – CN5101 (CCD [BACK])

Pin No.		Signal Name	Description
CN2004	CN5101		
1	1	5V	+5V
2	2	GND	Ground
3	3	BP1	CCD Clock (12.5MHz)
4	4	GND	Ground
5	5	BP2	CCD Clock (12.5MHz)
6	6	GND	Ground
7	7	BSH	CCD Clock (12.5MHz)
8	8	GND	Ground
9	9	BRST	CCD Clock (12.5MHz)
10	10	GND	Ground
11	11	BCP	CCD Clock (12.5MHz)
12	12	GND	Ground
13	13	CCDVER3	PCB Rev. detect 3
14	14	CCDVER4	PCB Rev. detect 4
15	–	N.C.	Non Connected

CN2001 (MOTHER) – CN1001 (MAIN)

Pin No.		Signal Name	Description
CN2001	CN1001		
1	1	GND	Ground
2	2	GND	Ground
3	3	GND	Ground
4	4	GND	Ground
5	5	*M_HWR	CPU Write Signal
6	6	*M_CS5	Chip Select 5
7	7	*M_RD	CPU Read Signal
8	8	*M_CS6	Chip Select 6
9	9	GND	Ground
10	10	GND	Ground
11	11	GND	Ground
12	12	GND	Ground
13	13	LD [7]	Local Data Bus
14	14	LD [6]	Local Data Bus
15	15	LD [5]	Local Data Bus
16	16	LD [4]	Local Data Bus
17	17	LD [3]	Local Data Bus
18	18	LD [2]	Local Data Bus
19	19	LD [1]	Local Data Bus
20	20	LD [0]	Local Data Bus
21	21	GND	Ground
22	22	GND	Ground
23	23	*IM_REQ	Request Signal from I/F to MAIN
24	24	*IM_ACK	Acknowledge Signal from MAIN
25	25	3.3V	+3.3V
26	26	JS_CLK	Double – Feed Sensor Clock (100kHz)
27	27	3.3V	+3.3V
28	28	K_MVREF	Setting Current for Paper Feed Motor
29	29	3.3V	+3.3V
30	30	K_MCLK	Paper Feed Motor's Clock
31	31	3.3V	+3.3V
32	32	H_MVREF	Setting Current for Conveyor Motor
33	33	GND	Ground
34	34	H_MCLK	Conveyor Motor's Clock
35	35	GND	Ground
36	36	P_MVREF	Setting Current for Hopper Motor
37	37	GND	Ground
38	38	BUZZER	Buzzer
39	39	GND	Ground
40	40	5V	+5V
41	41	SVSYNC	V sync.
42	42	5V	+5V
43	43	*RES_DES	Not used
44	44	5V	+5V
45	45	GND	Ground
46	46	5V	+5V
47	47	*RES_IF	Reset Signal
48	48	*RESET5	Reset Signal
49	49	GND	Ground
50	50	GND	Ground
51	51	*DM_REQ	Not used
52	52	*DM_ACK	Not used
53	53	CPUA [15]	MAIN CPU Address
54	54	*INT_SCSI	SPD Interrupt
55	55	CPUA [14]	MAIN CPU Address
56	56	*INT_MAIN	Interrupt Signal [MAIN to I/F]
57	57	CPUA [13]	MAIN CPU Address
58	58	3.3V	+3.3V
59	59	CPUA [12]	MAIN CPU Address
60	60	3.3V	+3.3V
61	61	GND	Ground
62	62	3.3V	+3.3V

63	63	GND	Ground
64	64	3.3V	+3.3V
65	65	GND	Ground
66	66	BDAT_CLK	Not used
67	67	GND	Ground
68	68	BDAT_EN	Back-side Data Enable
69	69	BGASD [0]	Back-side Data
70	70	BGASD [1]	Back-side Data
71	71	BGASD [2]	Back-side Data
72	72	BGASD [3]	Back-side Data
73	73	BGASD [4]	Back-side Data
74	74	BGASD [5]	Back-side Data
75	75	BGASD [6]	Back-side Data
76	76	BGASD [7]	Back-side Data
77	77	BGASD [8]	Back-side Data
78	78	BGASD [9]	Back-side Data
79	79	BGASD [10]	Back-side Data
80	80	BGASD [11]	Back-side Data
81	81	BGASD [12]	Back-side Data
82	82	BGASD [13]	Back-side Data
83	83	BGASD [14]	Back-side Data
84	84	BGASD [15]	Back-side Data
85	85	BGASD [16]	Back-side Data
86	86	BGASD [17]	Back-side Data
87	87	BGASD [18]	Back-side Data
88	88	BGASD [19]	Back-side Data
89	89	BGASD [20]	Back-side Data
90	90	BGASD [21]	Back-side Data
91	91	BGASD [22]	Back-side Data
92	92	BGASD [23]	Back-side Data
93	93	5V	+5V
94	94	5V	+5V
95	95	5V	+5V
96	96	BLMPCLK	CCD Clock (12.5MHz)
97	97	GND	Ground
98	98	GND	Ground
99	99	BCCDCP	CCD Clock (12.5MHz)
100	100	GND	Ground
101	101	BCCDRST	CCD Clock (12.5MHz)
102	102	BCCDSH	CCD Clock (12.5MHz)
103	103	BCCDP2	CCD Clock (12.5MHz)
104	104	BCCDP1	CCD Clock (12.5MHz)
105	105	GND	Ground
106	106	GND	Ground
107	107	GND	Ground
108	108	GND	Ground
109	109	P_MCLK	Hopper Motor's Clock
110	110	SENPWDC	Sensor Power
111	111	LIMIT_L	Limit [L] Signal
112	112	LIMIT_R	Limit [R] Signal
113	113	*PREXIT	Paper Detector
114	114	PJAM	Paper Jam
115	115	PFEXIT	Exit [Front] Sensor Signal
116	116	PHEAD	Starting Position Sensor Signal
117	117	SKEW_L	Skew (L) Signal
118	118	SKEW_R	Skew (R) Signal
119	119	STBY	Waiting Sensor Signal
120	120	INP_RXD	Imprinter Communication Signal
121	121	*INP_CTS	Imprinter Communication Signal
122	122	INP_TXD	Imprinter Communication Signal
123	123	*INP_RTS	Imprinter Communication Signal
124	124	PINP_RXD	Imprinter Communication Signal
125	125	*PINP_CTS	Imprinter Communication Signal
126	126	PINP_TXD	Imprinter Communication Signal
127	127	GND	Ground
128	128	*PINP_RTS	Imprinter Communication Signal

129	129	GND	Ground
130	130	3.3V	+3.3V
131	131	JSGAIN1	Double Feed Detector Gain 1
132	132	3.3V	+3.3V
133	133	JS_OUT	Double Feed Detector Output
134	134	3.3V	+3.3V
135	135	JSGAIN2	Double Feed Detector Gain 2
136	136	3.3V	+3.3V
137	137	GND	Ground
138	138	GND	Ground
139	139	GND	Ground
140	140	GND	Ground
141	141	FDAT_EN	Front-side Data Enable
142	142	FDAT_CLK	Front-side Data Clock (Not used)
143	143	FGASD [0]	Front-side Data
144	144	FGASD [1]	Front-side Data
145	145	FGASD [2]	Front-side Data
146	146	FGASD [3]	Front-side Data
147	147	FGASD [4]	Front-side Data
148	148	FGASD [5]	Front-side Data
149	149	FGASD [6]	Front-side Data
150	150	FGASD [7]	Front-side Data
151	151	FGASD [8]	Front-side Data
152	152	FGASD [9]	Front-side Data
153	153	FGASD [10]	Front-side Data
154	154	FGASD [11]	Front-side Data
155	155	FGASD [12]	Front-side Data
156	156	FGASD [13]	Front-side Data
157	157	FGASD [14]	Front-side Data
158	158	FGASD [15]	Front-side Data
159	159	FGASD [16]	Front-side Data
160	160	FGASD [17]	Front-side Data
161	161	FGASD [18]	Front-side Data
162	162	FGASD [19]	Front-side Data
163	163	FGASD [20]	Front-side Data
164	164	FGASD [21]	Front-side Data
165	165	FGASD [22]	Front-side Data
166	166	FGASD [23]	Front-side Data
167	167	5V	+5V
168	168	GND	Ground
169	169	5V	+5V
170	170	5V	+5V
171	171	FLMPCLK	CCD Clock (12.5MHz)
172	172	FCCDCP	CCD Clock (12.5MHz)
173	173	FCCDRST	CCD Clock (12.5MHz)
174	174	FCCDSH	CCD Clock (12.5MHz)
175	175	FCCDP2	CCD Clock (12.5MHz)
176	176	FCCDP1	CCD Clock (12.5MHz)
177	177	GND	Ground
178	178	GND	Ground
179	179	GND	Ground
180	180	GND	Ground

CN3001 (SCSI), CN3002 (SCSI)

Pin No.		Signal Name	Description
CN3001	CN3002		
1	1	+DB [12]	Data Bus (SCSI)
2	2	+DB [13]	Data Bus (SCSI)
3	3	+DB [14]	Data Bus (SCSI)
4	4	+DB [15]	Data Bus (SCSI)
5	5	+DBP1	Data Bus (SCSI) : Parity
6	6	+DB [0]	Data Bus (SCSI)
7	7	+DB [1]	Data Bus (SCSI)
8	8	+DB [2]	Data Bus (SCSI)
9	9	+DB [3]	Data Bus (SCSI)

10	10	+DB [4]	Data Bus (SCSI)
11	11	+DB [5]	Data Bus (SCSI)
12	12	+DB [6]	Data Bus (SCSI)
13	13	+DB [7]	Data Bus (SCSI)
14	14	+DBP0	Data Bus (SCSI) : Parity
15	15	GND	Ground
16	16	DIFFSENS	Level Sens.
17	17	V_TERM	Terminator Power
18	18	V_TERM	Terminator Power
19	19	No Used	–
20	20	GND	Ground
21	21	+ATN	SCSI Control Signal
22	22	GND	Ground
23	23	+BSY	SCSI Control Signal
24	24	+ACK	SCSI Control Signal
25	25	+RST	SCSI Control Signal
26	26	+MSG	SCSI Control Signal
27	27	+SEL	SCSI Control Signal
28	28	+C/D	SCSI Control Signal
29	29	+REG	SCSI Control Signal
30	30	+I/O	SCSI Control Signal
31	31	+DB [8]	Data Bus (SCSI)
32	32	+DB [9]	Data Bus (SCSI)
33	33	+DB [10]	Data Bus (SCSI)
34	34	+DB [11]	Data Bus (SCSI)
35	35	–DB [12]	Data Bus (SCSI)
36	36	–DB [13]	Data Bus (SCSI)
37	37	–DB [14]	Data Bus (SCSI)
38	38	–DB [15]	Data Bus (SCSI)
39	39	–DBP1	DBP
40	40	–DB [0]	Data Bus (SCSI)
41	41	–DB [1]	Data Bus (SCSI)
42	42	–DB [2]	Data Bus (SCSI)
43	43	–DB [3]	Data Bus (SCSI)
44	44	–DB [4]	Data Bus (SCSI)
45	45	–DB [5]	Data Bus (SCSI)
46	46	–DB [6]	Data Bus (SCSI)
47	47	–DB [7]	Data Bus (SCSI)
48	48	–DBP0	DBP
49	49	GND	Ground
50	50	GND	Ground
51	51	V_TERM	Terminator Power
52	52	V_TERM	Terminator Power
53	53	No used	–
54	54	GND	Ground
55	55	–ATN	SCSI Control Signal
56	56	GND	Ground
57	57	–BSY	SCSI Control Signal
58	58	–ACK	SCSI Control Signal
59	59	–RST	SCSI Control Signal
60	60	–MSG	SCSI Control Signal
61	61	–SEL	SCSI Control Signal
62	62	–C/D	SCSI Control Signal
63	63	–REQ	SCSI Control Signal
64	64	–I/O	SCSI Control Signal
65	65	–DB [8]	Data Bus (SCSI)
66	66	–DB [9]	Data Bus (SCSI)
67	67	–DB [10]	Data Bus (SCSI)
68	68	–DB [11]	Data Bus (SCSI)

CN2007 (MOTHER) – CN3012 (I/F)

Pin No.		Signal Name	Description
CN2007	CN3012		
1	1	GND	Ground
2	2	GND	Ground
3	3	GND	Ground
4	4	GND	Ground
5	5	FMD [0]	Front-side Data
6	6	3.3V	3.3V
7	7	3.3V	3.3V
8	8	3.3V	3.3V
9	9	FMD [1]	Front-side Data
10	10	FMD [2]	Front-side Data
11	11	FMD [3]	Front-side Data
12	12	FMD [4]	Front-side Data
13	13	FMD [5]	Front-side Data
14	14	FMD [6]	Front-side Data
15	15	FMD [7]	Front-side Data
16	16	FMD [8]	Front-side Data
17	17	FMD [9]	Front-side Data
18	18	FMD [10]	Front-side Data
19	19	FMD [11]	Front-side Data
20	20	FMD [12]	Front-side Data
21	21	FMD [13]	Front-side Data
22	22	FMD [14]	Front-side Data
23	23	FMD [15]	Front-side Data
24	24	FMD [16]	Front-side Data
25	25	FMD [17]	Front-side Data
26	26	FMD [18]	Front-side Data
27	27	FMD [19]	Front-side Data
28	28	FMD [20]	Front-side Data
29	29	FMD [21]	Front-side Data
30	30	FMD [22]	Front-side Data
31	31	FMD [23]	Front-side Data
32	32	FWIND	Front-side Data Enable
33	33	GND	Ground
34	34	GND	Ground
35	35	GND	Ground
36	36	GND	Ground
37	37	5V	5V
38	38	BMD [0]	Back-side Data
39	39	BMD [1]	Back-side Data
40	40	BMD [2]	Back-side Data
41	41	BMD [3]	Back-side Data
42	42	BMD [4]	Back-side Data
43	43	BMD [5]	Back-side Data
44	44	BMD [6]	Back-side Data
45	45	BMD [7]	Back-side Data
46	46	BMD [8]	Back-side Data
47	47	BMD [9]	Back-side Data
48	48	BMD [10]	Back-side Data
49	49	BMD [11]	Back-side Data
50	50	BMD [12]	Back-side Data
51	51	BMD [13]	Back-side Data
52	52	BMD [14]	Back-side Data
53	53	BMD [15]	Back-side Data
54	54	BMD [16]	Back-side Data
55	55	BMD [17]	Back-side Data
56	56	BMD [18]	Back-side Data
57	57	BMD [19]	Back-side Data
58	58	BMD [20]	Back-side Data
59	59	BMD [21]	Back-side Data
60	60	BMD [22]	Back-side Data
61	61	BMD [23]	Back-side Data
62	62	BWIND	Back-side Data Enable

63	63	5V	5V
64	64	GND	Ground
65	65	5V	5V
66	66	GND	Ground
67	67	5V	5V
68	68	VWIND	V Sync.
69	69	GND	Ground
70	70	GND	Ground
71	71	GND	Ground
72	72	GND	Ground
73	73	3.3V	3.3V
74	74	3.3V	3.3V
75	75	3.3V	3.3V
76	76	3.3V	3.3V
77	77	MCDT [0]	Data (MAIN → I/F (SCSI))
78	78	MCDT [1]	Data (MAIN → I/F (SCSI))
79	79	MCDT [2]	Data (MAIN → I/F (SCSI))
80	80	MCDT [3]	Data (MAIN → I/F (SCSI))
81	81	MCDT [4]	Data (MAIN → I/F (SCSI))
82	82	MCDT [5]	Data (MAIN → I/F (SCSI))
83	83	MCDT [6]	Data (MAIN → I/F (SCSI))
84	84	MCDT [7]	Data (MAIN → I/F (SCSI))
85	85	GND	Ground
86	86	GND	Ground
87	87	GND	Ground
88	88	GND	Ground
89	89	MSD [0]	Data (I/F (SCSI) → MAIN))
90	90	MSD [1]	Data (I/F (SCSI) → MAIN))
91	91	MSD [2]	Data (I/F (SCSI) → MAIN))
92	92	MSD [3]	Data (I/F (SCSI) → MAIN))
93	93	MSD [4]	Data (I/F (SCSI) → MAIN))
94	94	MSD [5]	Data (I/F (SCSI) → MAIN))
95	95	MSD [6]	Data (I/F (SCSI) → MAIN))
96	96	MSD [7]	Data (I/F (SCSI) → MAIN))
97	97	GND	Ground
98	98	GND	Ground
99	99	GND	Ground
100	100	GND	Ground
101	101	*MSEND	Communication Signal (for MAIN and I/F)
102	102	*WTDLD	Communication Signal (for MAIN and I/F)
103	103	*MACK	Communication Signal (for MAIN and I/F)
104	104	GND	Ground
105	105	*IFACK	Communication Signal (for MAIN and I/F)
106	106	GND	Ground
107	107	*IFSEND	Communication Signal (for MAIN and I/F)
108	108	*RSTCPU	I/F CPU Reset
109	109	TERMPC	Terminator Enable
110	110	*IRQSC	SPD Interrupt
111	111	3.3V	3.3V
112	112	*SCANEN	I/F Buffer Ready
113	113	3.3V	3.3V
114	114	*IRQMCPU	Interrupt Signal (MAIN → I/F)
115	115	3.3V	3.3V
116	116	*RESET	System Reset
117	117	GND	Ground
118	118	GND	Ground
119	119	GND	Ground
120	120	GND	Ground

CN2008 (MOTHER) – CN4000 (DRIVE)

Pin No.		Signal Name	Description
CN2008	CN4000		
1	1	24VSW	24V Door Switch
2	2	24VSW	24V Door Switch
3	3	24VSW	24V Door Switch
4	4	24VSW	24V Door Switch
5	5	24VSW	24V Door Switch
6	6	24VSW	24V Door Switch
7	7	SCAD24	Front Door and Back Door Switch
8	8	DOOR24	Lamp Door Switch
9	9	38V	38V (for imprinter's printing)
10	10	38V	38V (for imprinter's printing)
11	11	GND2	Ground
12	12	GND2	Ground
13	13	*HA	Conveyor Motor Phase Signal
14	14	*HA	Conveyor Motor Phase Signal
15	15	*HA	Conveyor Motor Phase Signal
16	16	GND2	Ground
17	17	HCOMA	Conveyor Motor Phase Signal
18	18	HCOMA	Conveyor Motor Phase Signal
19	19	HCOMA	Conveyor Motor Phase Signal
20	20	GND2	Ground
21	21	HA	Conveyor Motor Phase Signal
22	22	HA	Conveyor Motor Phase Signal
23	23	HA	Conveyor Motor Phase Signal
24	24	GND2	Ground
25	25	*HB	Conveyor Motor Phase Signal
26	26	*HB	Conveyor Motor Phase Signal
27	27	*HB	Conveyor Motor Phase Signal
28	28	GND2	Ground
29	29	HCOMB	Conveyor Motor Phase Signal
30	30	HCOMB	Conveyor Motor Phase Signal
31	31	HCOMB	Conveyor Motor Phase Signal
32	32	GND2	Ground
33	33	HB	Conveyor Motor Phase Signal
34	34	HB	Conveyor Motor Phase Signal
35	35	HB	Conveyor Motor Phase Signal
36	36	GND2	Ground
37	37	GND2	Ground
38	38	GND2	Ground
39	39	GND2	Ground
40	40	GND2	Ground
41	41	*KA	Paper Feed Motor Phase Signal
42	42	*KA	Paper Feed Motor Phase Signal
43	43	*KA	Paper Feed Motor Phase Signal
44	44	GND2	Ground
45	45	KCOMA	Paper Feed Motor Phase Signal
46	46	KCOMA	Paper Feed Motor Phase Signal
47	47	KCOMA	Paper Feed Motor Phase Signal
48	48	GND2	Ground
49	49	KA	Paper Feed Motor Phase Signal
50	50	KA	Paper Feed Motor Phase Signal
51	51	KA	Paper Feed Motor Phase Signal
52	52	GND2	Ground
53	53	*KB	Paper Feed Motor Phase Signal
54	54	*KB	Paper Feed Motor Phase Signal
55	55	*KB	Paper Feed Motor Phase Signal
56	56	GND2	Ground
57	57	KCOMB	Paper Feed Motor Phase Signal
58	58	KCOMB	Paper Feed Motor Phase Signal
59	59	KCOMB	Paper Feed Motor Phase Signal
60	60	GND2	Ground
61	61	KB	Paper Feed Motor Phase Signal
62	62	KB	Paper Feed Motor Phase Signal

63	63	KB	Paper Feed Motor Phase Signal
64	64	GND2	Ground
65	65	GND2	Ground
66	66	GND2	Ground
67	67	GND2	Ground
68	68	GND2	Ground
69	69	*PA	Hopper Motor Phase Signal
70	70	GND2	Ground
71	71	*PA	Hopper Motor Phase Signal
72	72	GND2	Ground
73	73	PCOMA	Hopper Motor Phase Signal
74	74	GND2	Ground
75	75	PCOMA	Hopper Motor Phase Signal
76	76	GND2	Ground
77	77	PA	Hopper Motor Phase Signal
78	78	GND	Ground
79	79	PA	Hopper Motor Phase Signal
80	80	GND	Ground
81	81	*PB	Hopper Motor Phase Signal
82	82	GND	Ground
83	83	*PB	Hopper Motor Phase Signal
84	84	GND	Ground
85	85	PCOMB	Hopper Motor Phase Signal
86	86	GND	Ground
87	87	PCOMB	Hopper Motor Phase Signal
88	88	GND	Ground
89	89	PB	Hopper Motor Phase Signal
90	90	GND	Ground
91	91	PB	Hopper Motor Phase Signal
92	92	GND	Ground
93	93	GND	Ground
94	94	INP_SW	Imprinter Power Control
95	95	P_MCLK	Hopper Motor Clock (Approx. 1kHz)
96	96	5V	5V
97	97	5V	5V
98	98	5V	5V
99	99	SCADOOR	Lamp Door Detect
100	100	5VPT	Logic IC Power for imprinter
101	101	DOOR1	24V Detect
102	102	DOOR2	Front, Back Door Detect
103	103	H_MVRE	Current Setting for Conveyor Motor
104	104	*RESETP	Reset
105	105	H_MCLK	Conveyor Motor Clock (Approx. 1kHz)
106	106	DECM1	MAIN CPU Control
107	107	K_MVRE	Current Setting for Paper Feed Motor
108	108	DRV_VER2	PCB Rev. Detect
109	109	K_MCLK	Paper Feed Motor Clock (Approx. 1kHz)
110	110	DECM2	MAIN CPU Control
111	111	P_MVRE	Current Setting for Hopper Motor
112	112	DRV_VER1	PCB Rev. Detect
113	113	LD [7]	Local Data Bus (MAIN CPU)
114	114	LD [6]	Local Data Bus (MAIN CPU)
115	115	LD [5]	Local Data Bus (MAIN CPU)
116	116	LD [4]	Local Data Bus (MAIN CPU)
117	117	LD [3]	Local Data Bus (MAIN CPU)
118	118	LD [2]	Local Data Bus (MAIN CPU)
119	119	LD [1]	Local Data Bus (MAIN CPU)
120	120	LD [0]	Local Data Bus (MAIN CPU)

CN2018 (MOTHER) – CN32 (FAN RELAY 2)

Pin No.		Signal Name	Description
CN2018	CN32		
1	1	V+	24V
2	2	GND	Ground
3	3	FANLK	Fan Motor Lock Detect

FAN RELAY 2 (CN31) – Fan

Pin No.		Signal Name	Description
CN31	Fan		
1	1	24V	24V
2	2	GND	Ground
3	3	SIG	Fan

CN1002 (MAIN) – CN5103 (CCD [FRONT])

Pin No.		Signal Name	Description
CN1002	CN5103		
1	1	FR_EVEN	Pixel Signal
2	2	GND	Ground
3	3	FR_ODD	Pixel Signal
4	4	GND	Ground
5	5	FG_EVEN	Pixel Signal
6	6	GND	Ground
7	7	FG_ODD	Pixel Signal
8	8	GND	Ground
9	9	FB_EVEN	Pixel Signal
10	10	GND	Ground
11	11	FB_ODD	Pixel Signal
12	12	GND	Ground

CN1003 (MAIN) – CN5103 (CCD [BACK])

Pin No.		Signal Name	Description
CN1003	CN5103		
1	1	BR_EVEN	Pixel Signal
2	2	GND	Ground
3	3	BR_ODD	Pixel Signal
4	4	GND	Ground
5	5	BG_EVEN	Pixel Signal
6	6	GND	Ground
7	7	BG_ODD	Pixel Signal
8	8	GND	Ground
9	9	BB_EVEN	Pixel Signal
10	10	GND	Ground
11	11	BB_ODD	Pixel Signal
12	12	GND	Ground
13	–	N.C.	Non Connected

CN2026 (MOTHER) – CN1 (LAMP INVERTER) / CN2009 (MOTHER) / Front Door Switch / Back Door Switch / Lamp Door Switch

Pin No.						Signal Name	Description
CN2026	CN1	CN2009	Front	Back	Lamp		
1	1	–	–	–	–	24VSW	24V (Door Switch ON)
2	2	–	–	–	–	GND2	Ground
3	3	–	–	–	–	B LAMP ON	Back-side Lamp ON
4	4	–	–	–	–	B LAMP CLK	Back-side Lamp Clock (70kHz)
5	5	–	–	–	–	GND	Ground
6	6	–	–	–	–	24VSW	24V (Door switch ON)
7	7	–	–	–	–	GND2	Ground
8	8	–	–	–	–	F LAMP ON	Front-side Lamp ON
9	9	–	–	–	–	F LAMP CLK	Front-side Lamp Clock (70kHz)
10	10	–	–	–	–	GND	Ground
–	–	1	2	–	–	24V	24V
–	–	2	3	–	–	24V DOOR1	Front, Back Door
–	–	3	–	2	–	24V DOOR1	Front, Back Door
–	–	4	–	3	–	24V DOOR2	Lamp Door
–	–	5	–	–	2	24V DOOR2	Lamp Door
–	–	6	–	–	3	24VSW	24V (Door Switch ON)

CN2010 (MOTHER) – Conveyor Motor / Paper Feed Motor

Pin No.			Signal Name	Description
CN2010	Conveyor Motor	Paper Feed Motor		
1	1	–	*HA	Conveyor Motor Phase Signal
2	2	–	HCOMA	Conveyor Motor Phase Signal
3	3	–	HA	Conveyor Motor Phase Signal
4	4	–	*HB	Conveyor Motor Phase Signal
5	5	–	HCOMB	Conveyor Motor Phase Signal
6	6	–	HB	Conveyor Motor Phase Signal
7	–	1	*KA	Paper Feed Motor Phase Signal
8	–	2	KCOMA	Paper Feed Motor Phase Signal
9	–	3	KA	Paper Feed Motor Phase Signal
10	–	4	*KB	Paper Feed Motor Phase Signal
11	–	5	KCOMB	Paper Feed Motor Phase Signal
12	–	6	KB	Paper Feed Motor Phase Signal

Hopper Motor – CN2013 (MOTHER)

Pin No.		Signal Name	Description
Hopper Motor	CN2013		
1	1	*PA	Hopper Motor Phase Signal
2	–	N.C.	Non connected
3	2	PCOMA	Hopper Motor Phase Signal
4	3	PA	Hopper Motor Phase Signal
5	4	*PB	Hopper Motor Phase Signal
6	5	PCOMB	Hopper Motor Phase Signal
7	6	PB	Hopper Motor Phase Signal
8	–	N.C.	Non connected

CN2027 (MOTHER) – CN8 (HOPPER RELAY)

Pin No.		Signal Name	Description
CN2027	CN8		
1	1	5VSLP	5V (Stand-by)
2	2	PSIZE1	Paper Size A3
3	3	PSIZE2	Paper Size B4
4	4	PSIZE3	Paper Size A4
5	5	PSIZE4	Paper Size B5
6	6	PSIZE5	Paper Size A6
7	7	*PEXIST	Paper Detector
8	8	GND	Ground
9	9	GND	Ground

CN2011 (MOTHER) – CN9 (HOPPER [POSITION]) / CN15 (POINTER DETECTOR) / CN16 (RELAY [LOWER]) / CN18 (RETARD [POSITION])

Pin No.					Signal Name	Description
CN2011	CN9	CN15	CN16	CN18		
1	1	–	–	–	5VSLP	5V (Stand-by)
2	2	–	–	–	HOPPER1	Hopper (Lower)
3	3	–	–	–	HOPPER2	Hopper (Center)
4	4	–	–	–	HOPPER3	Hopper (Upper
5	5	–	–	–	GND	Ground
6	–	–	–	1	5VSLP	5V (Stand-by)
7	–	1	–	–	5VSLP	5V (Stand-by)
8	–	2	–	–	*PREXIT	Exit (Rear)
9	–	3	–	–	POINTER	Pointer Detector
10	–	4	–	–	GND	Ground
11	–	–	1	–	24V	24V
12	–	–	2	–	GND	Ground
13	–	–	3	–	5VSEN	Sensor Power
14	–	–	4	–	GND	Ground
15	–	–	5	–	JS_CLK	Double Feed Detector Clock (100kHz)
16	–	–	6	–	JSGAINT	Double Feed Detector Output
17	–	–	–	2	RETARD	Retard Roller Release
18	–	–	–	3	GND	Ground

CN2012 (MOTHER) – CN11 (POST IMPRINTER DOOR) / CN10 (ENDING FRONT POSITION SENSOR)

Pin No.			Signal Name	Description
CN2012	CN11	CN10		
1	1	–	5VSLP	+5V (Stand-by)
2	2	–	INPDOOR	Post Imprinter Door
3	3	–	GND	Ground
4	–	–	N.C.	Non Connected
5	–	1	5VSEN	5V Sensor Power
6	–	2	PFEXIT	Exit [Front]
7	–	3	GND	Ground

CN6 (HOPPER RELAY) – CN3 (SIZE DETECTOR)

Pin No.		Signal Name	Description
CN6	CN3		
1	10	5VSLP	5V (Stand-by)
2	9	5VSLP	5V (Stand-by)
3	8	PSIZE1	Paper Size A3
4	7	PSIZE2	Paper Size B4
5	6	PSIZE3	Paper Size A4
6	5	PSIZE4	Paper Size B5
7	4	PSIZE5	Paper Size A6
8	3	*PEXIST	Detect Paper
9	2	GND	Ground
10	1	GND	Ground

CN4 (SIZE DETECTOR) – Paper Detector

Pin No.		Signal Name	Description
CN4	Paper Detector		
1	1	5VSLP	5V (Stand-by)
2	2	*PEXIST	Exit (Front)
3	3	GND	Ground
4	–	F.G	Frame Ground

CN7 (HOPPER [POSITION]) – CN5 (HOPPER [ANGLE])

Pin No.		Signal Name	Description
CN7	CN5		
1	4	5VSLP	5V (Stand-by)
2	3	HOPPER3	Hopper (Upper)
3	2	GND	Ground
4	1	GND	Ground

CN14 (POINTER DETECTOR) – Exit [Rear] Sensor

Pin No.		Signal Name	Description
CN14	Exit [Rear] Sensor		
1	1	5VSLP	5V (Stand-by)
2	2	*PREXIT	Exit (Rear)
3	3	GND	Ground

CN12 (DOUBLE FEED DETECTOR [G]) – CN13 (RELAY [LOWER])

Pin No.		Signal Name	Description
CN12	CN13		
1	1	USOUND_S1	Double Feed Detector Output (+)
2	2	N.C.	Non Connected
3	3	USOUND_S2	Double Feed Detector Output (-)
4	4	F.G	Frame Ground

CN2025 (MOTHER) – CN1 (PANEL)

Pin No.		Signal Name	Description
CN2025	CN1		
1	1	GND	Ground
2	2	ENB_BZ	Buzzer Enable
3	3	GND	Ground
4	4	BUZZER	Buzzer Clock (2kHz)
5	5	GND	Ground
6	6	GND	Ground
7	7	GND	Ground
8	8	*DECKY2	MAIN CPU Control signal
9	9	*LED_GRN	LED Green Enable
10	10	*DECKY1	MAIN CPU Control Signal
11	11	*LED_RED	LED Red Enable
12	12	LCD_RW	LCD Control Signal
13	13	5V	5V
14	14	LCD_RS	LCD Control Signal
15	15	5VSLP	5V (Stand-by)
16	16	LCD_E	LCD Control Signal
17	17	LD [7]	Local Data Bus (MAIN CPU)
18	18	LD [0]	Local Data Bus (MAIN CPU)
19	19	LD [6]	Local Data Bus (MAIN CPU)
20	20	LD [1]	Local Data Bus (MAIN CPU)
21	21	LD [5]	Local Data Bus (MAIN CPU)
22	22	LD [2]	Local Data Bus (MAIN CPU)
23	23	LD [4]	Local Data Bus (MAIN CPU)
24	24	LD [3]	Local Data Bus (MAIN CPU)

CN2 (PANEL) – Speaker

Pin No.		Signal Name	Description
CN2	Speaker		
1	1	SPK	Speaker
2	2	N.C.	Non Connected
3	3	GND	Ground

CN2015 (MOTHER) – Post Imprinter Unit (Option)

Pin No.		Signal Name	Description
CN2015	Post Imprinter Door		
1	1	PCBNUM	PCB Rev. Detect
2	2	*INP_RTSP	Imprinter Communication Signal
3	3	INP_RXDP	Imprinter Communication Signal
4	4	*INP_CTSP	Imprinter Communication Signal
5	5	INP_TXDP	Imprinter Communication Signal
6	6	NUMRES	Imprinter Reset
7	7	NUMBER	Imprinter Control Signal
8	8	5VPT	5V (Logic Power for Imprinter)
9	9	GND	Ground
10	10	GND	Ground
11	11	38VPT	38V
12	12	3.3VPT	3.3V
13	13	GND	Ground
14	14	GND	Ground

CN2014 (MOTHER) – CN27 (RELAY [UPPER])

Pin No.		Signal Name	Description
CN2014	CN27		
1	–	PREPCBNUM	PCB Rev. Detect
2	–	PINT_RTSC	Imprinter Communication Signal
3	–	PINTRXDP	Imprinter Communication Signal
4	–	PINT_CTSP	Imprinter Communication Signal
5	–	PINT_TXDP	Imprinter Communication Signal
6	–	PRENUMRES	Imprinter Reset
7	–	PRENUMBER	Imprinter Control Signal
8	–	5VPT	5V (Logic Power for Imprinter)
9	–	GND	Ground
10	–	GND	Ground
11	–	38VPT	38V (for Imprinter's printing)
12	–	3.3VPT	3.3V (for imprinter's Logic)
13	–	GND	Ground
14	–	*PINP_ENC	Non Connected
15	1	12V	12V
16	2	GND	Ground
17	3	*PINPDOOR	Non Connected
18	4	PJAM	Paper Jam
19	5	STBY	Waiting Sensor Signal
20	6	LIMIT_R	Limit (R) Signal
21	7	SKEW_R	Skew (R) Signal
22	8	PHEAD	Starting Position Sensor Signal
23	9	SKEW_L	Skew (L) Signal
24	10	LIMIT_L	Limit (L) Signal
25	11	5VSEN	5V (Sensor Power)
26	12	5VSEN	5V (Sensor Power)
27	13	5VSLP	5V (Stand-by)
28	14	5VSEN	5V (Sensor Power)
29	15	GND	Ground
30	16	JS_OUT	Double Feed Detector Clock (100kHz)
31	17	JSGAINR	Double Feed Detector Output
32	18	GND	Ground
33	19	–10V	–10V
34	20	GND	Ground

CN28 (RELAY [UPPER]) – CN19 (SKEW [R]) / CN33 (SKEW [L])

Pin No.			Signal Name	Description
CN28	CN19	CN33		
1	1	–	LIMIT_R	Limit (R) Signal
2	2	–	SKEW_R	Skew (R) Signal
3	3	–	5VSEN	5V (Sensor Power)
4	4	–	5VSEN	5V (Sensor Power)
5	5	–	GND	Ground
6	6	–	GND	Ground
7	–	1	STBY	Waiting Sensor Signal
8	–	2	PHEAD	Starting Position Sensor Signal
9	–	3	SKEW_L	Skew (L)
10	–	4	LIMIT_L	Limit (L) Signal
11	–	5	5VSEN	5V (Sensor Power)
12	–	6	5VSEN	5V (Sensor Power)
13	–	7	GND	Ground
14	–	8	GND	Ground

CN20 (PAPER JAM SENSOR) – CN24 (RELAY [UPPER])

Pin No.		Signal Name	Description
CN20	CN24		
1	1	5VSEN	5V (Sensor Power)
2	2	PJAM	Paper Jam
3	3	GND	Ground

CN21 (DOUBLE FEED DETECTOR (R)) – CN26 (RELAY [UPPER])

Pin No.		Signal Name	Description
CN21	CN26		
1	1	USOUND_R1	Double Feed Detector Input (+)
2	2	USOUND_R2	Double Feed Detector Input (–)
3	3	F.G	Frame Ground

CN30 (FAN RELAY 1) – POWER Board

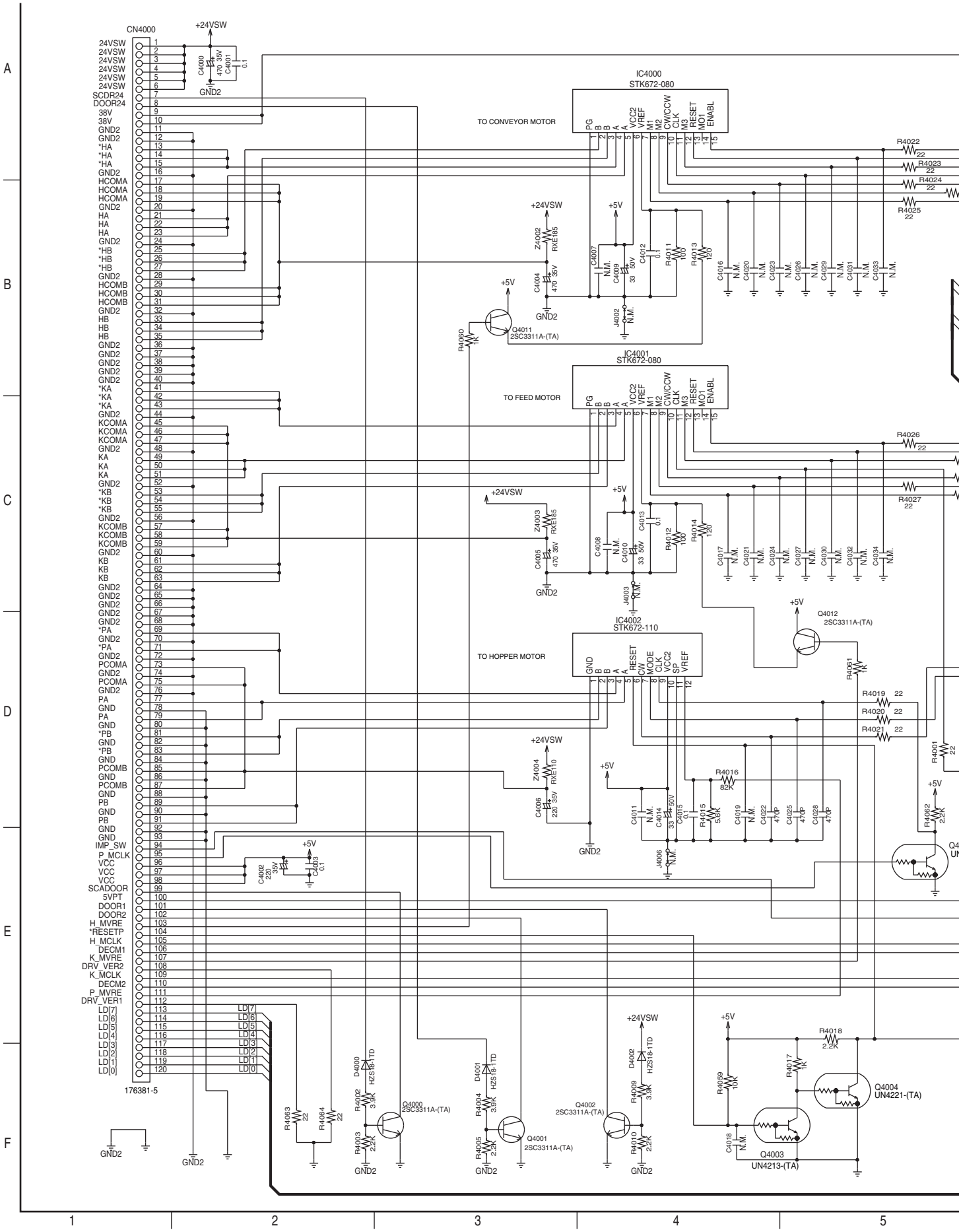
Pin No.		Signal Name	Description
CN30	POWER Board		
1	1	24V	24V
2	2	GND	Ground
3	3	SIG	Fan Motor Lock Detect

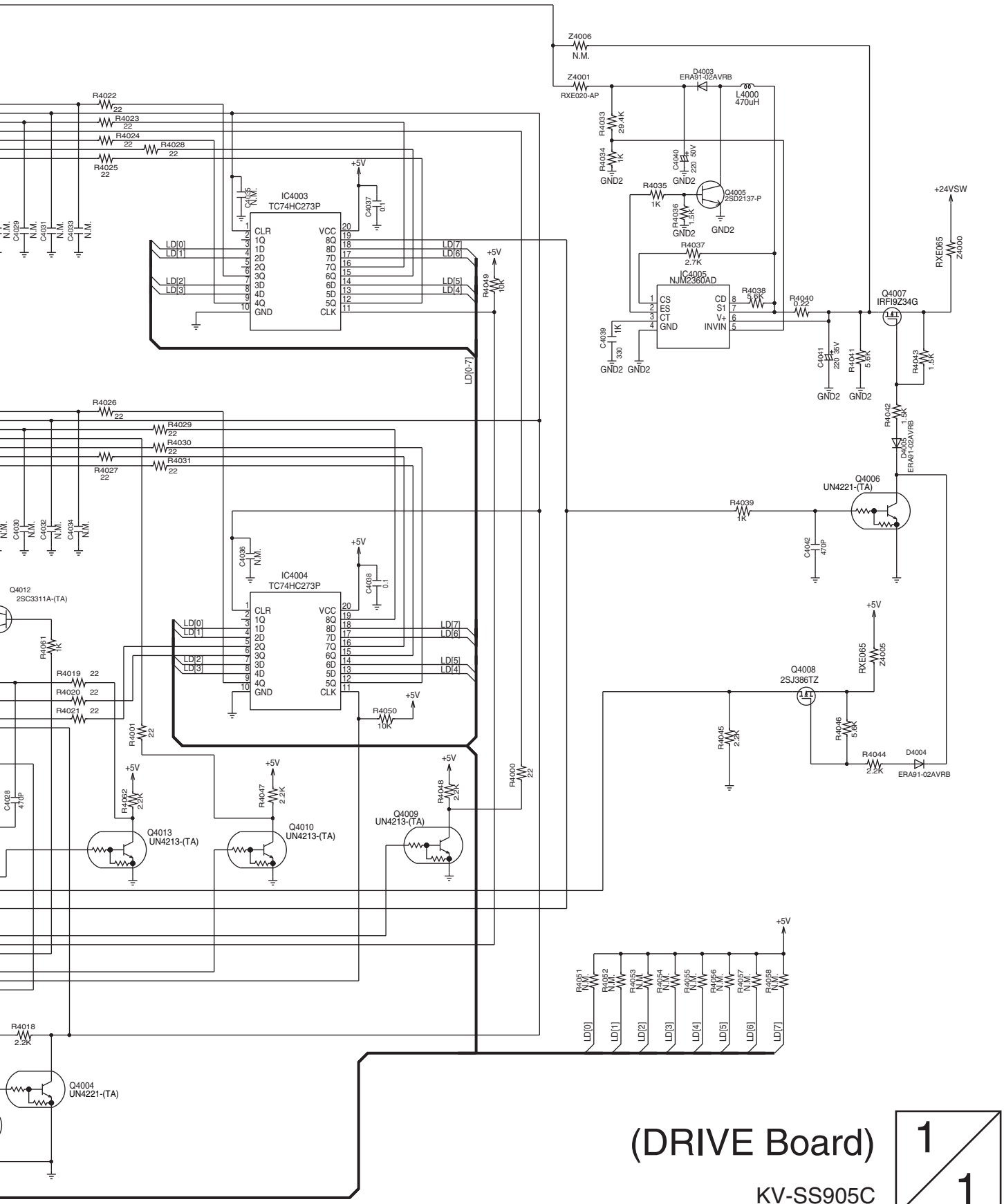
CN29 (FAN RELAY 1) – Fan

Pin No.		Signal Name	Description
CN29	Fan		
1	1	24V	24V
2	2	GND	Ground
3	3	SIG	Fan Motor Lock Detect

CN2019, CN2020 (MOTHER) – POWER Board

Pin No.		Signal Name	Description
CN2019	CN2020		
1	–	–12V	–12V
2	–	14V	14V
3	–	24V	24V
4	–	24V	24V
5	–	GND	Ground
6	–	GND	Ground
7	–	GND	Ground
8	–	GND	Ground
–	1	STAND BY	Stand-by signal
–	2	5V	5V
–	3	5V	5V
–	4	GND	Ground
–	5	GND	Ground
–	6	GND	Ground
–	7	3.3V	3.3V


CN4000
176381-5
IC4000
STK672-080
TO CONVEYOR MOTOR
IC4001
STK672-080
TO FEED MOTOR
IC4002
STK672-110
TO HOPPER MOTOR
+24VSW
+5V
GND2
Q4011
2SC3311A-(TA)
Q4012
2SC3311A-(TA)
Q4000
2SC3311A-(TA)
Q4001
2SC3311A-(TA)
Q4002
2SC3311A-(TA)
Q4004
UN4221-(TA)
Q4003
UN4213-(TA)
24VSW
SCDR24
DOOR24
38V
GND2
*HA
HCOMA
HA
*HB
HCOMB
HB
*KA
KCOMA
KA
*KB
KCOMB
KB
*PA
PCOMA
PA
*PB
PCOMB
PB
P_MCLK
VCC
SCADOOR
5VPT
DOOR1
DOOR2
H_MVRE
*RESETP
H_MCLK
DECM1
K_MVRE
DRV_VER2
K_MCLK
DECM2
P_MVRE
DRV_VER1
LD[7]
LD[6]
LD[5]
LD[4]
LD[3]
LD[2]
LD[1]
LD[0]
IMP_SW



(DRIVE Board)

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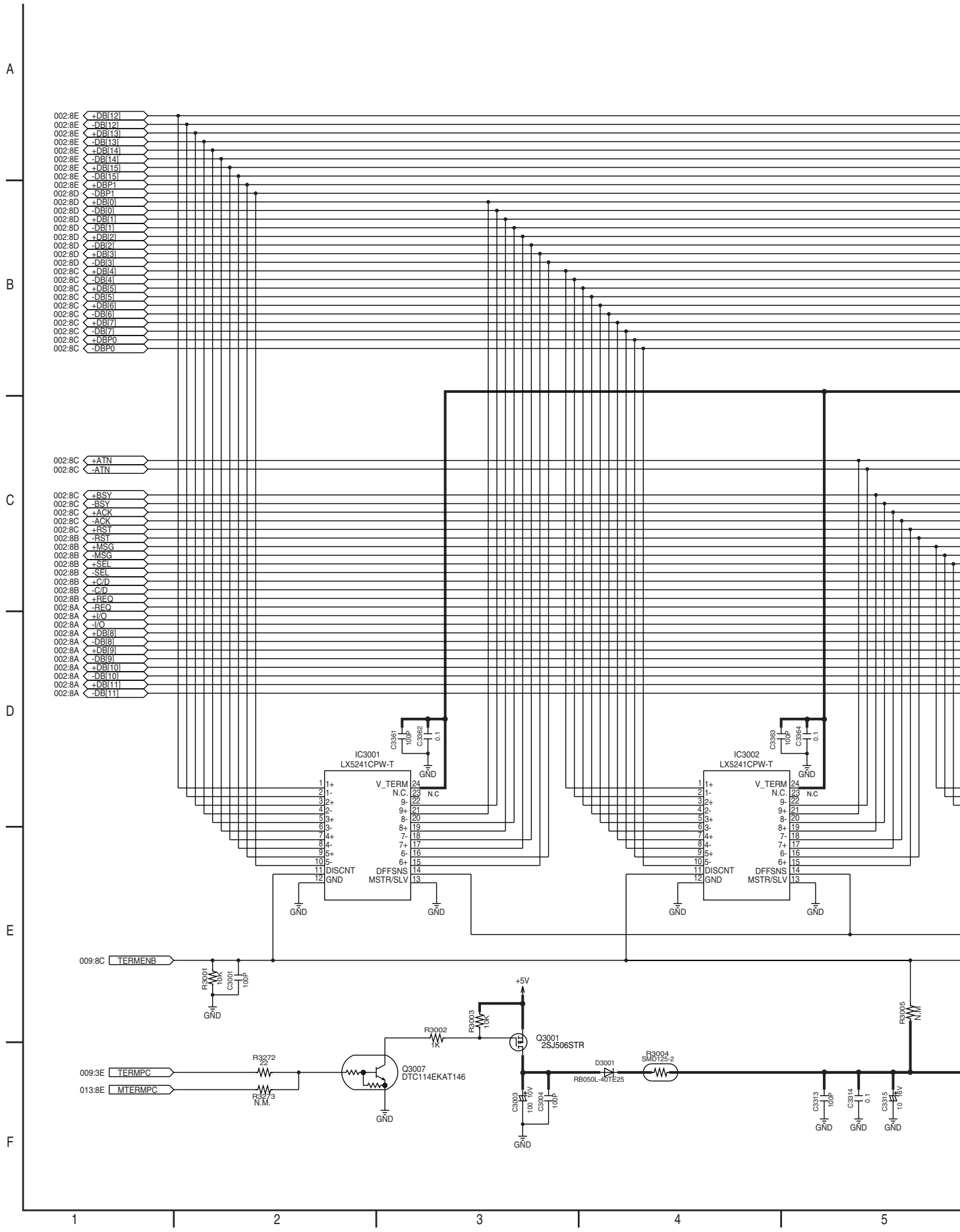
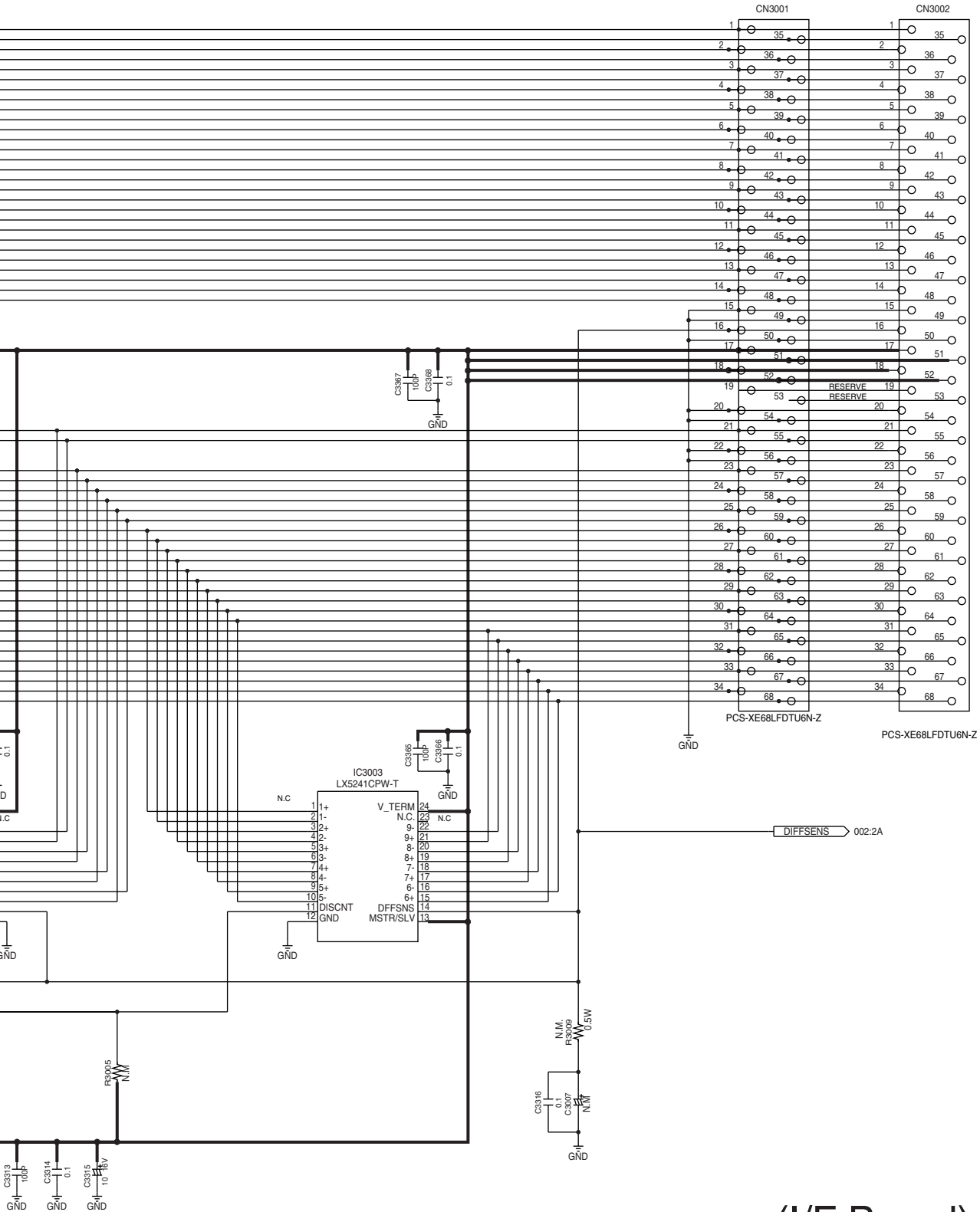
5 | 6 | 7 | 8


002:8E +DB[12]
002:8E -DB[12]
002:8E +DB[13]
002:8E -DB[13]
002:8E +DB[14]
002:8E -DB[14]
002:8E +DB[15]
002:8E -DB[15]
002:8E +DBP1
002:8D -DBP1
002:8D +DB[0]
002:8D -DB[0]
002:8D +DB[1]
002:8D -DB[1]
002:8D +DB[2]
002:8D -DB[2]
002:8D +DB[3]
002:8D -DB[3]
002:8C +DB[4]
002:8C -DB[4]
002:8C +DB[5]
002:8C -DB[5]
002:8C +DB[6]
002:8C -DB[6]
002:8C +DB[7]
002:8C -DB[7]
002:8C +DBP0
002:8C -DBP0
002:8C +ATN
002:8C -ATN
002:8C +BSY
002:8C -BSY
002:8C +ACK
002:8C -ACK
002:8C +RST
002:8B -RST
002:8B +MSG
002:8B -MSG
002:8B +SEL
002:8B -SEL
002:8B +C/D
002:8B -C/D
002:8B +REQ
002:8A -REQ
002:8A +I/O
002:8A -I/O
002:8A +DB[8]
002:8A -DB[8]
002:8A +DB[9]
002:8A -DB[9]
002:8A +DB[10]
002:8A -DB[10]
002:8A +DB[11]
002:8A -DB[11]
C3361 100P
C3362 0.1
GND
IC3001
LX5241CPW-T
V_TERM
N.C.
N.C
DISCNT
GND
DFFSNS
MSTR/SLV
C3363 100P
C3364 0.1
IC3002
LX5241CPW-T
009:8C TERMENB
R3001 10K
C3001 100P
+5V
R3003 10K
R3002 1K
Q3001 2SJ506STR
R3004 SMD125-2
D3001 RB050L-40TE25
R3005 N.M.
009:3E TERMPC
013:8E MTERMPC
R3272 22
R3273 N.M.
Q3007 DTC114EKAT146
C3003 100 16V
C3004 100P
C3313 100P
C3314 0.1
C3315 10 16V
A
B
C
D
E
F
1
2
3
4
5



(I/F Board)

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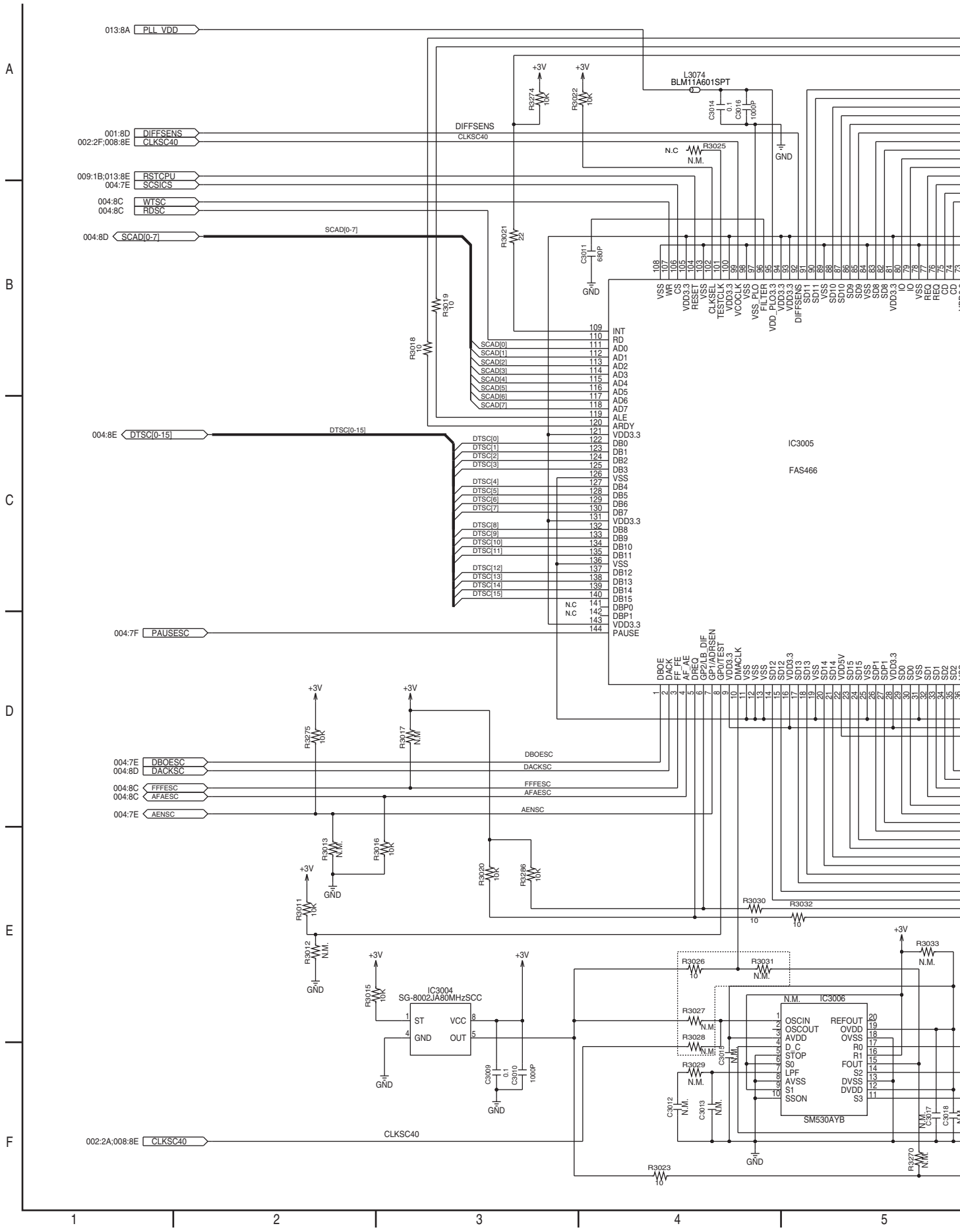
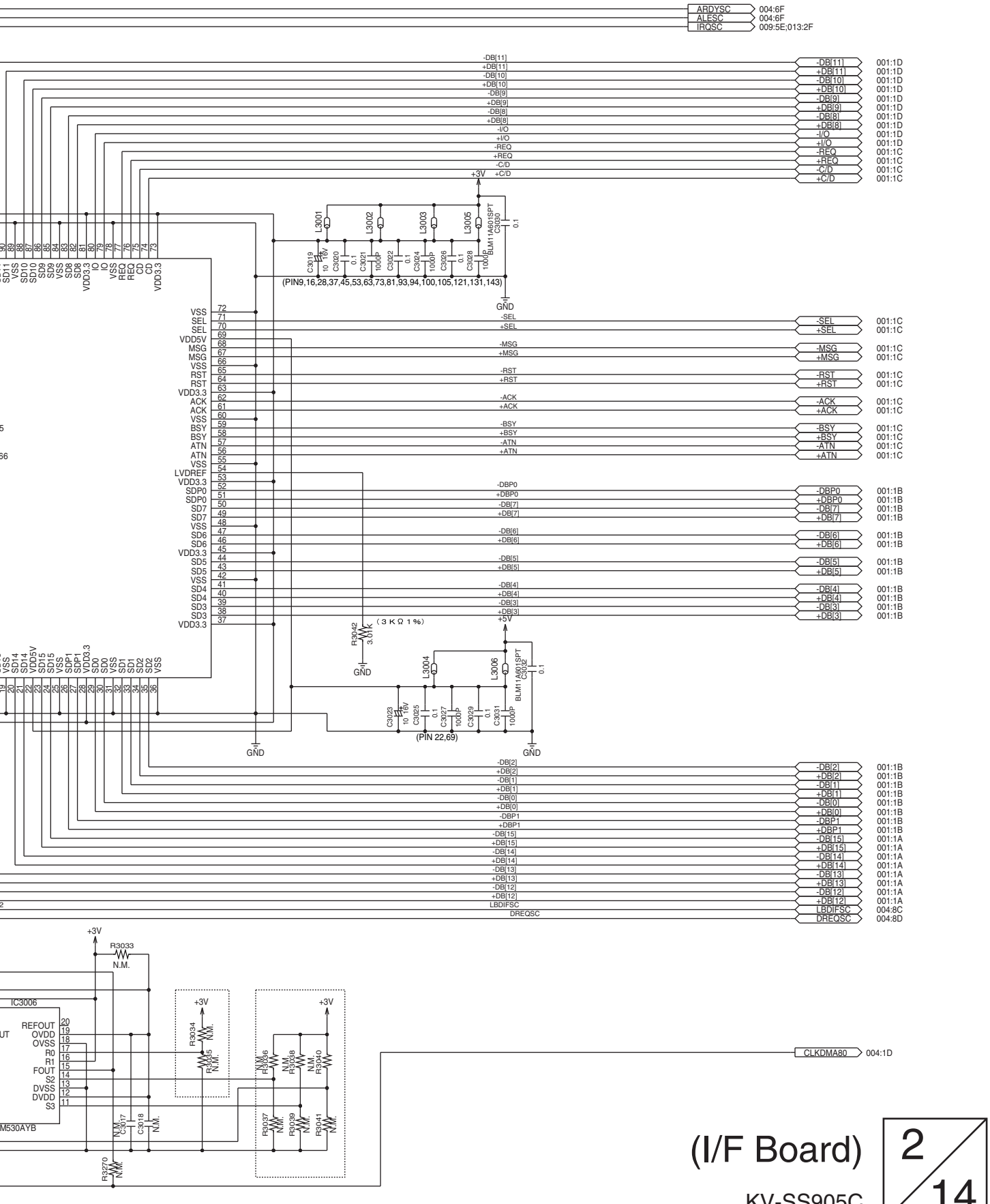

013:8A PLL_VDD
001:8D DIFFSENS
002:2F;008:8E CLKSC40
009:1B;013:8E RSTCPU
004:7E SCSICS
004:8C WTSC
004:8C RDSC
004:8D SCAD[0-7]
004:8E DTSC[0-15]
004:7F PAUSESC
004:7E DBOESC
004:8D DACKSC
004:8C FFFESC
004:8C AFAESC
004:7E AENSC
002:2A;008:8E CLKSC40
L3074
BLM11A601SPT
IC3005
FAS466
IC3004
SG-8002JA80MHzSCC
IC3006
SM530AYB
+3V
GND
N.C
N.M.



(I/F Board)

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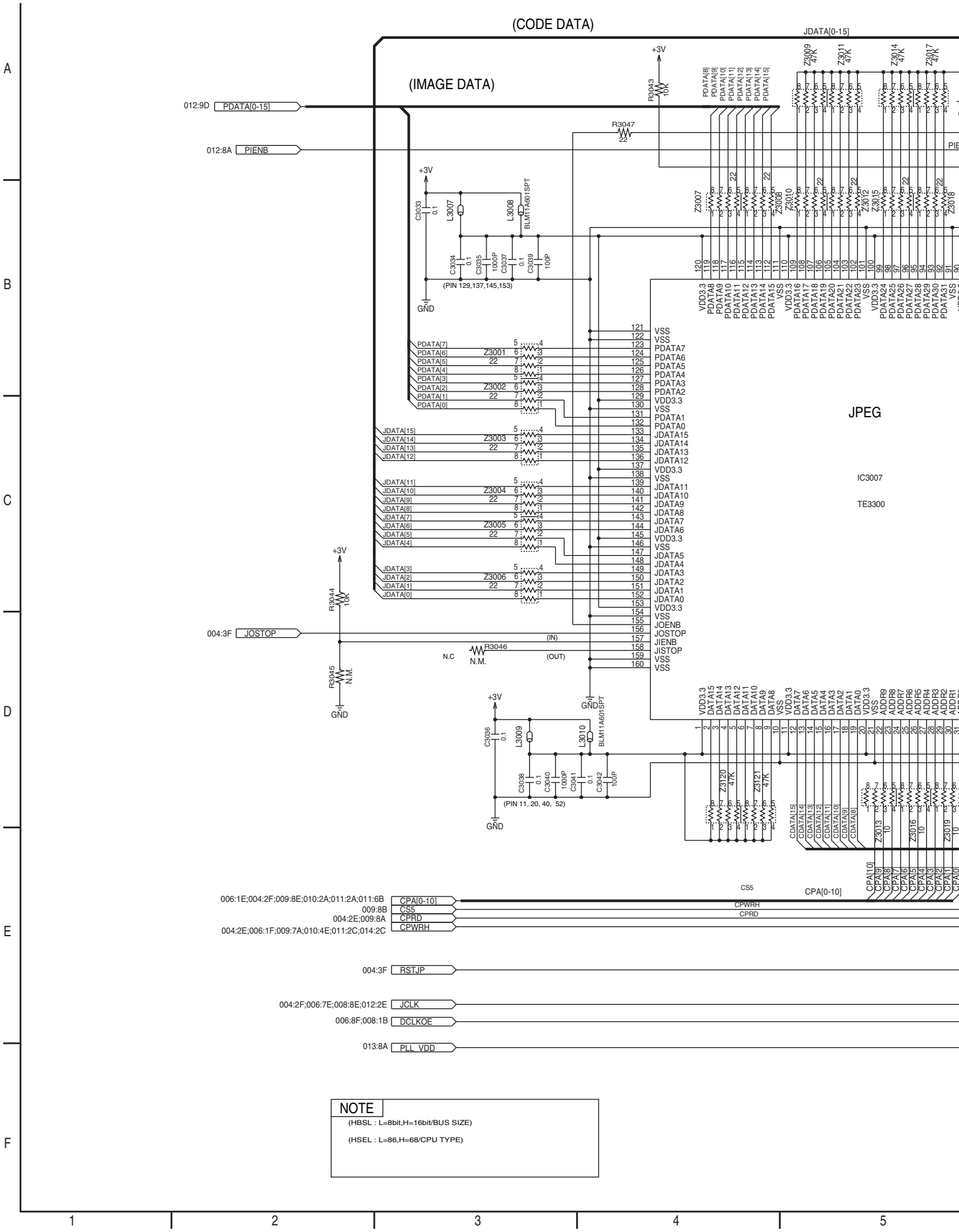
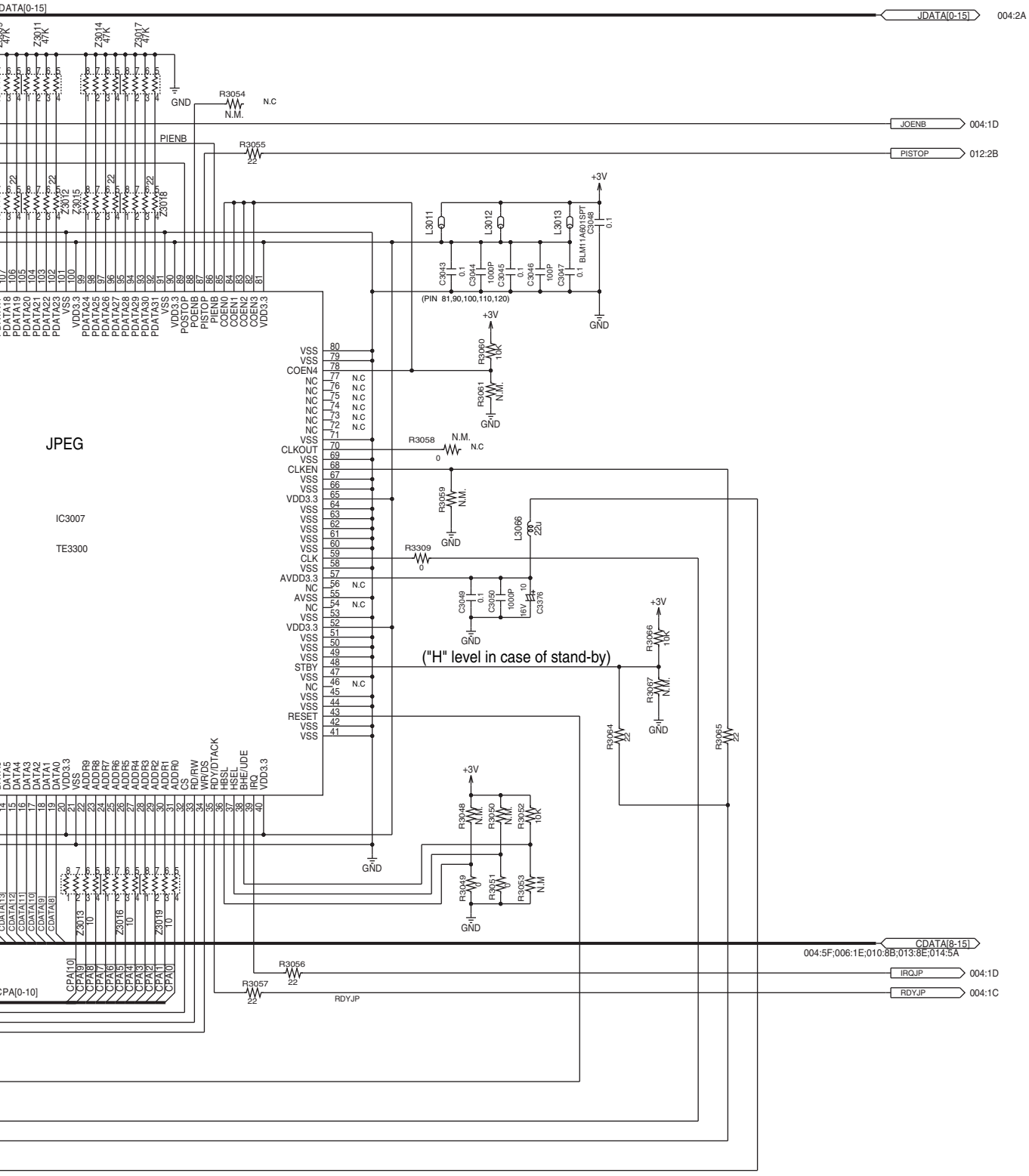
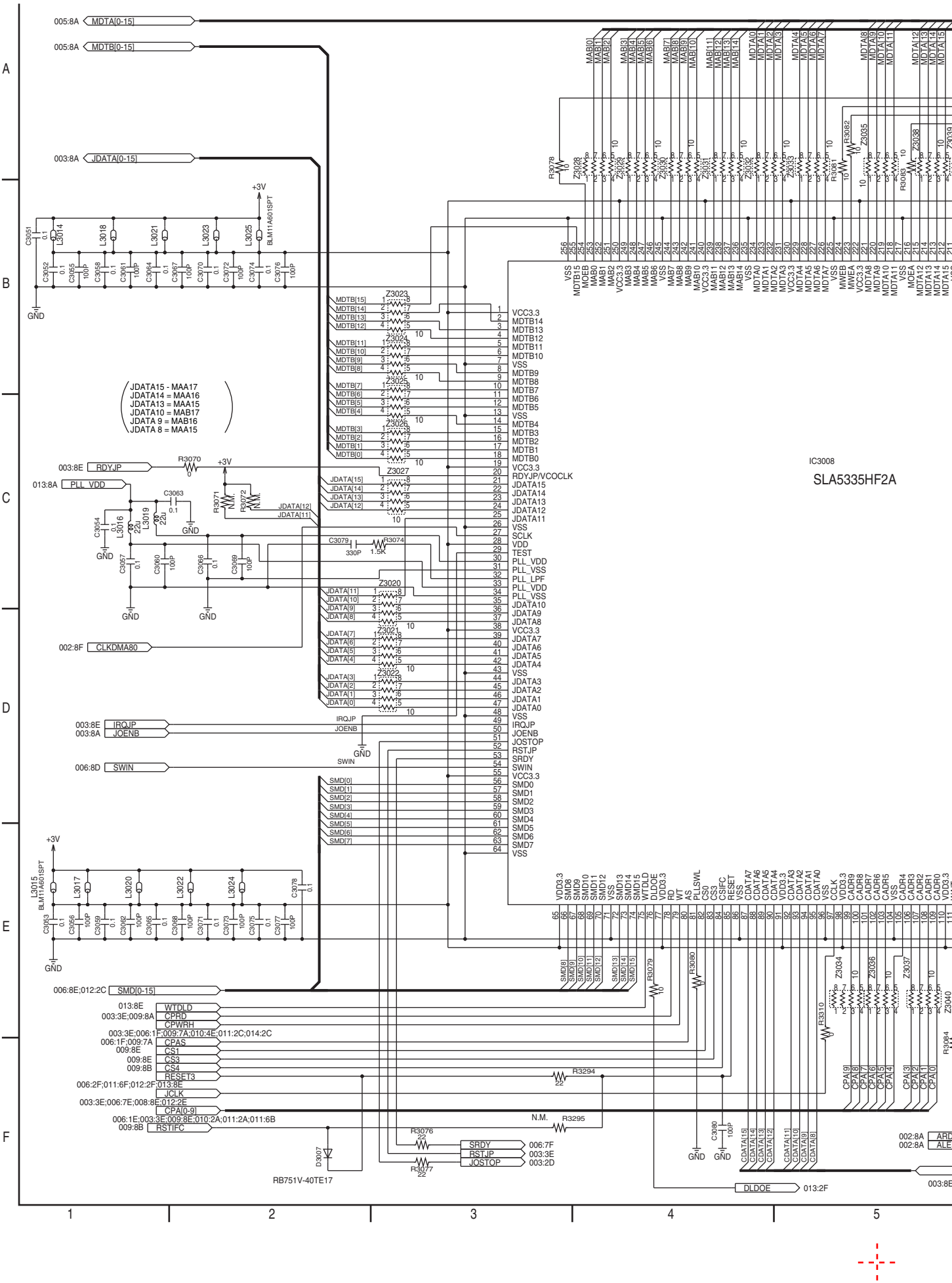
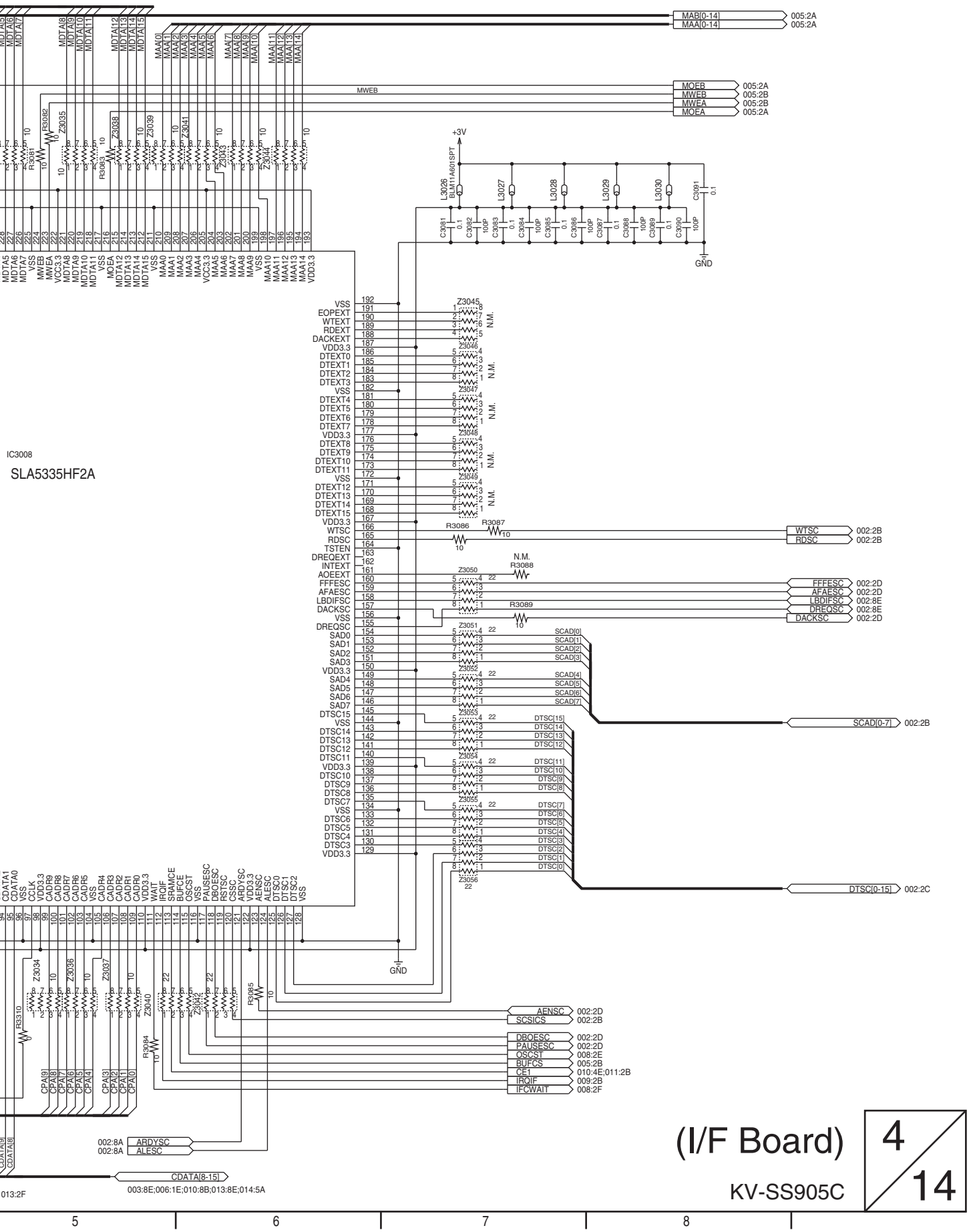

(CODE DATA)
(IMAGE DATA)
JDATA[0-15]
012:9D PDATA[0-15]
012:8A PIENB
+3V
R3043 10K
R3047 22
Z3009 47K
Z3011 47K
Z3014 47K
Z3017 47K
Z3007
Z3010
Z3012
Z3015
Z3018
C3033 0.1
L3007
L3008 BLM11A601SPT
C3034 0.1
C3035 1000P
C3037 0.1
C3039 100P
(PIN 129,137,145,153)
GND
JPEG
IC3007
TE3300
Z3001 22
Z3002 22
Z3003 22
Z3004 22
Z3005 22
Z3006 22
R3044 10K
004:3F JOSTOP
(IN)
R3046 N.M.
N.C
(OUT)
R3045 N.M.
C3036 0.1
L3009
L3010 BLM11A601SPT
C3038 0.1
C3040 1000P
C3041 0.1
C3042 100P
(PIN 11, 20, 40, 52)
Z3120 47K
Z3121 47K
Z3013
Z3016
Z3019
CS5
CPA[0-10]
CPWRH
CPRD
006:1E;004:2F;009:8E;010:2A;011:2A;011:6B CPA[0-10]
009:8B CS5
004:2E;009:8A CPRD
004:2E;006:1F;009:7A;010:4E;011:2C;014:2C CPWRH
004:3F RSTJP
004:2F;006:7E;008:8E;012:2E JCLK
006:8F;008:1B DCLKOE
013:8A PLL_VDD
NOTE
(HBSL : L=8bit,H=16bit/BUS SIZE)
(HSEL : L=86,H=68/CPU TYPE)


JDATA[0-15]
004:2A
JOENB
004:1D
PISTOP
012:2B
PIENB
GND
R3054
N.C
N.M.
R3055
22
+3V
L3011
L3012
L3013
BLM11A601SPT
C3043
C3044
1000P
C3045
C3046
100P
C3047
C3048
0.1
(PIN 81,90,100,110,120)
R3060
10K
R3061
N.M.
JPEG
IC3007
TE3300
R3058
R3059
L3066
22u
R3309
C3049
C3050
C3376
16V
("H" level in case of stand-by)
R3066
R3067
R3064
R3065
R3048
R3050
R3052
R3049
R3051
R3053
CDATA[8-15]
004:5F;006:1E;010:8B;013:8E;014:5A
R3056
R3057
IRQJP
004:1D
RDYJP
004:1C
CPA[0-10]


005:8A MDTA[0-15]
005:8A MDTB[0-15]
003:8A JDATA[0-15]
JDATA15 - MAA17
JDATA14 = MAA16
JDATA13 = MAA15
JDATA10 = MAB17
JDATA 9 = MAB16
JDATA 8 = MAA15
003:8E RDYJP
013:8A PLL_VDD
002:8F CLKDMA80
003:8E IRQJP
003:8A JOENB
006:8D SWIN
006:8E;012:2C SMD[0-15]
013:8E WTDLD
003:3E;009:8A CPRD
CPWRH
003:3E;006:1F;009:7A;010:4E;011:2C;014:2C
006:1F;009:7A CPAS
009:8E CS1
009:8E CS3
009:8B CS4
RESET3
006:2F;011:6F;012:2F;013:8E JCLK
003:3E;006:7E;008:8E;012:2E CPA[0-9]
006:1E;003:3E;009:8E;010:2A;011:2A;011:6B
009:8B RSTIFC
IC3008
SLA5335HF2A
VCC3.3
RDYJP/VCOCLK
PLL_VDD
PLL_VSS
PLL_LPF
SCLK
VDD
TEST
IRQJP
JOENB
JOSTOP
RSTJP
SRDY
SWIN
RB751V-40TE17
SRDY 006:7F
RSTJP 003:3E
JOSTOP 003:2D
DLDOE 013:2F
002:8A ARD
002:8A ALE
003:8E
GND
+3V
N.M.
A
B
C
D
E
F
1
2
3
4
5



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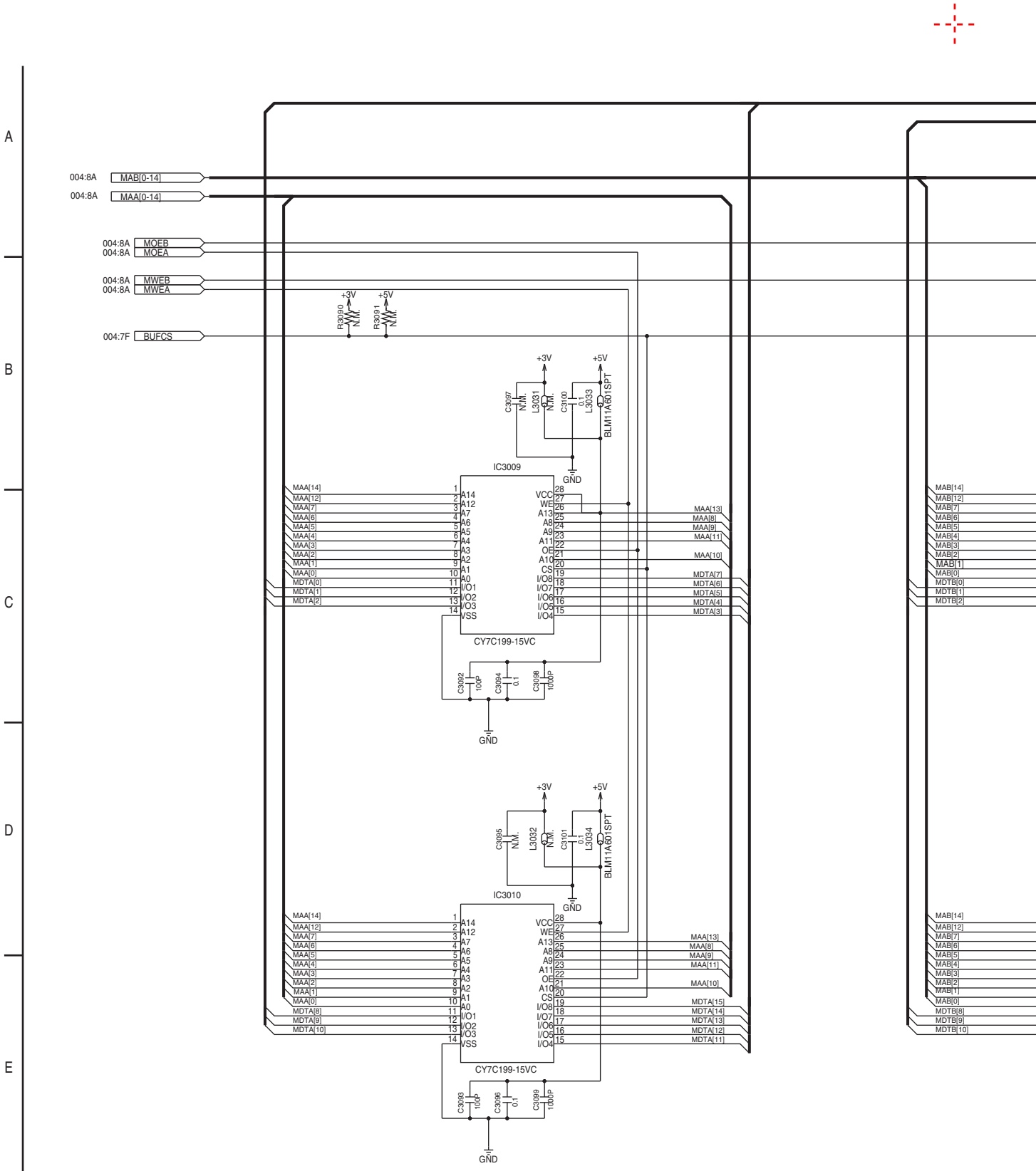
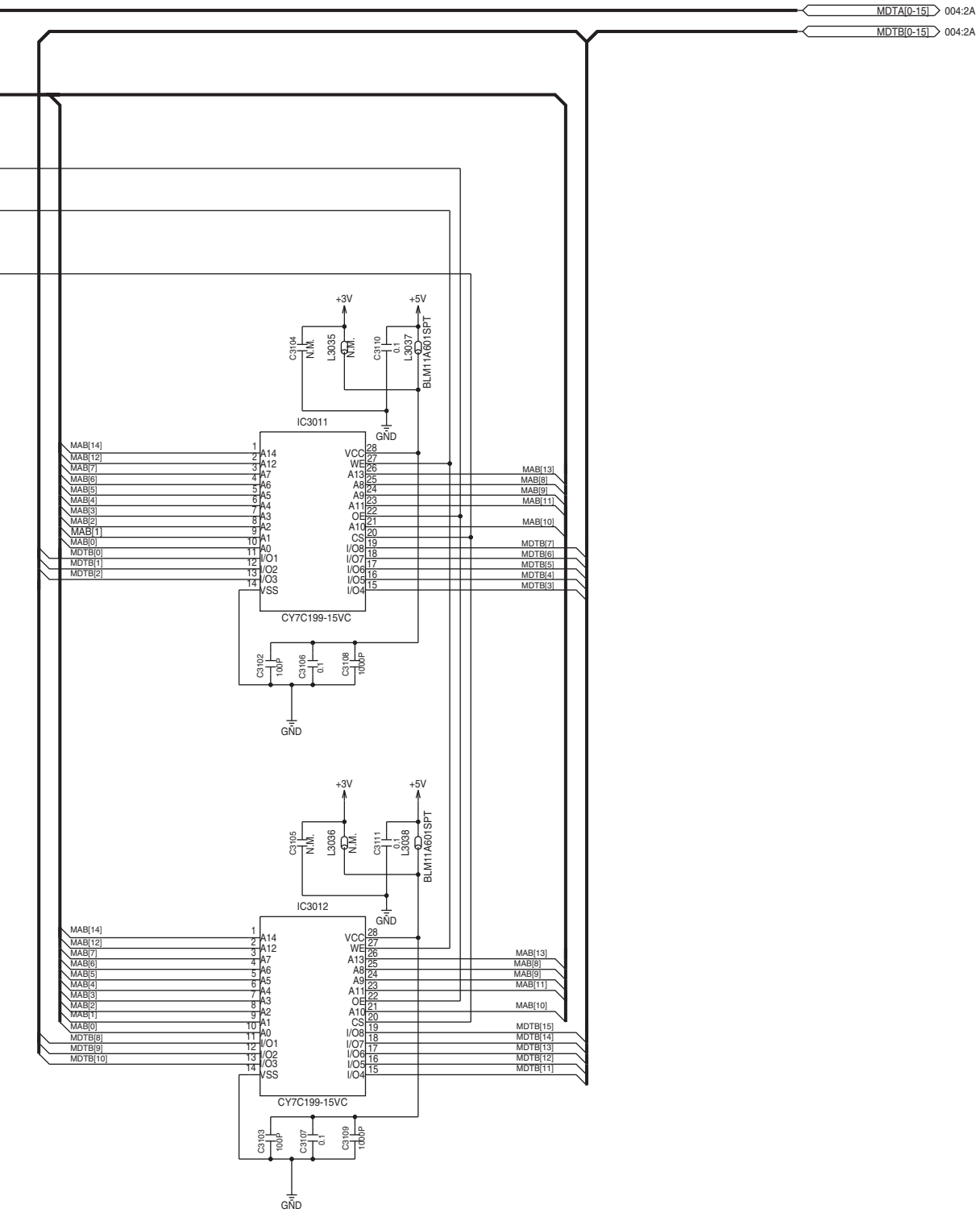
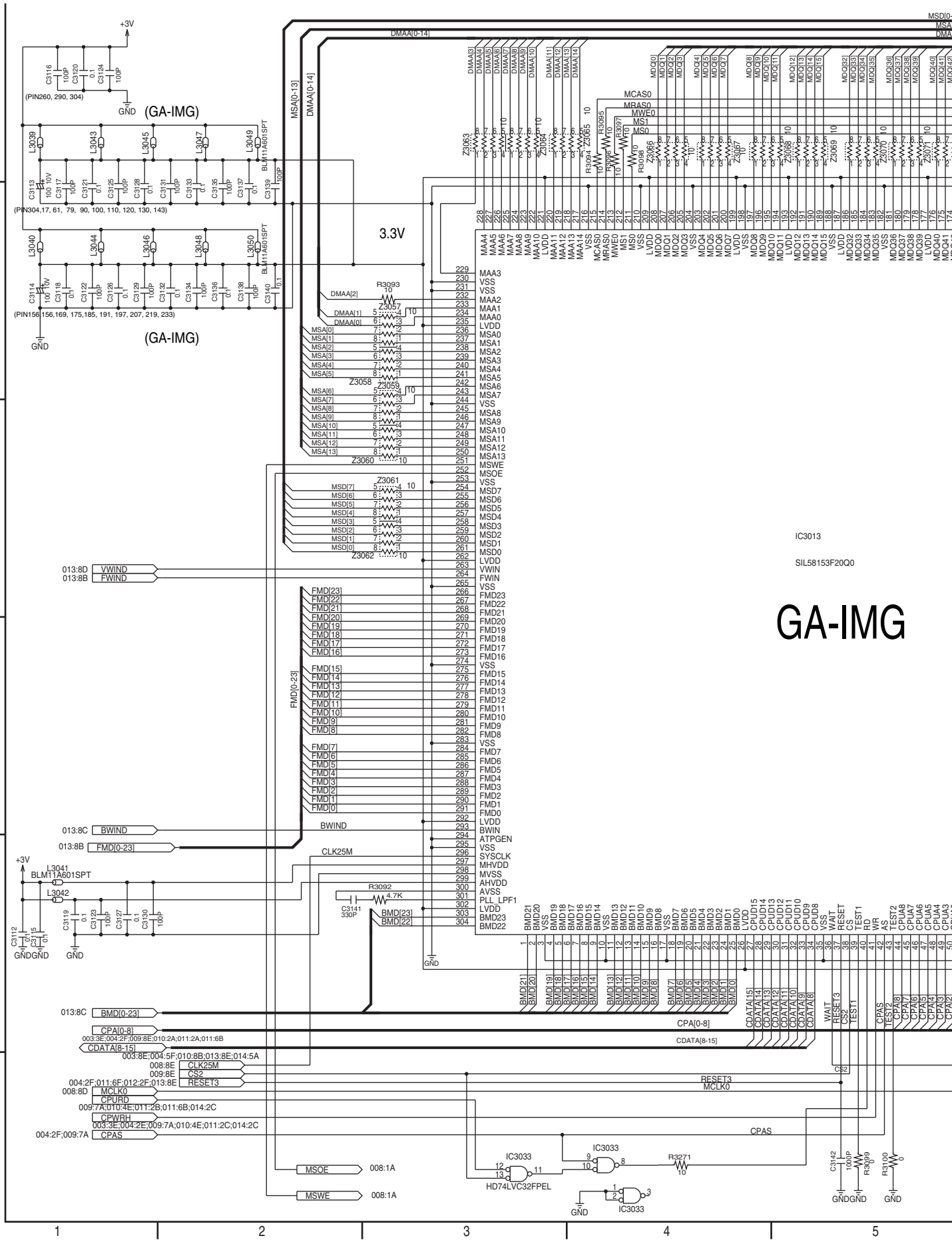
5 6 7 8

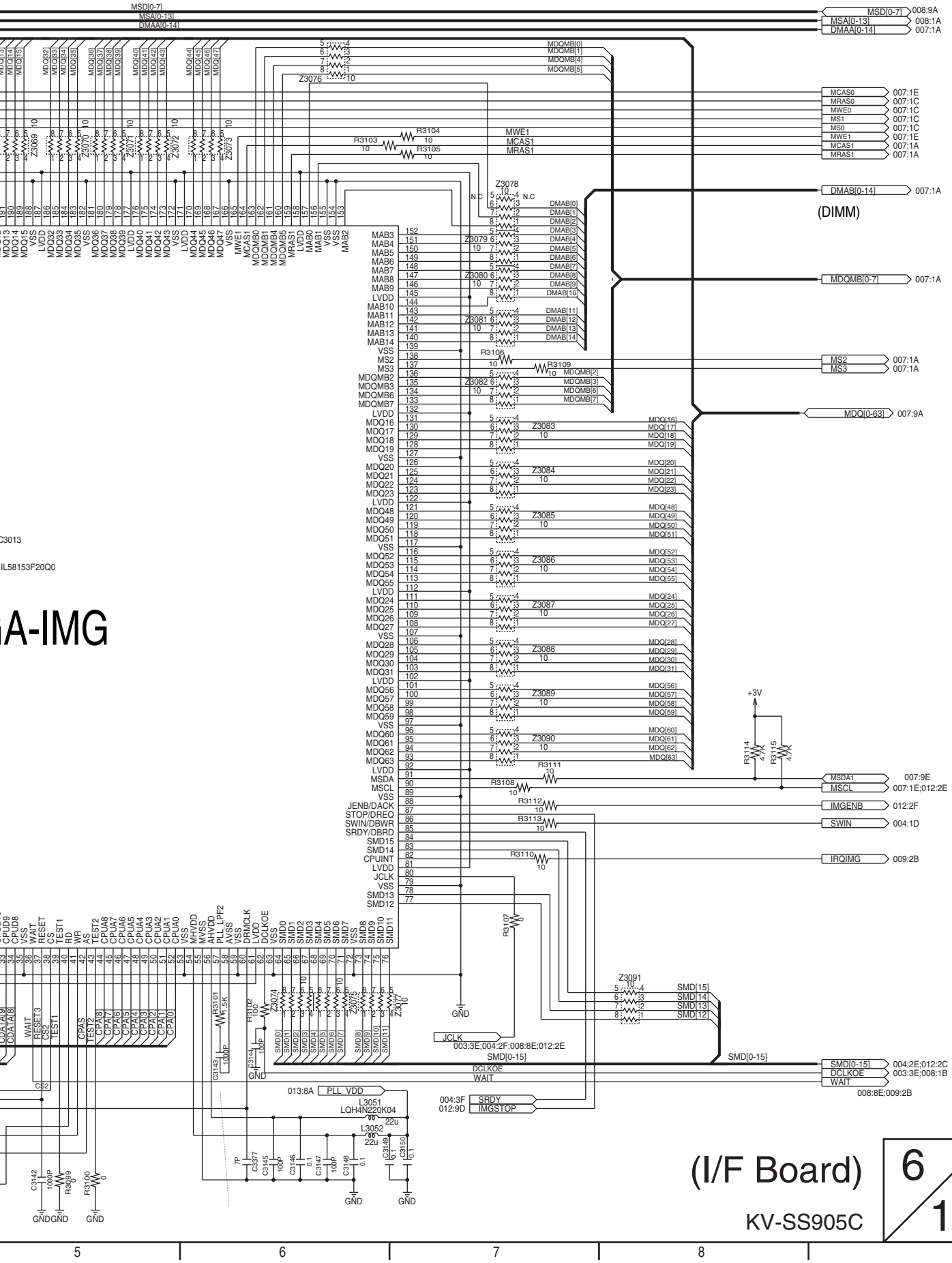


(Buffer A : GA-IFC)



(Buffer B : GA-IFC)


IC3013
SIL58153F20Q0
GA-IMG
(GA-IMG)
(GA-IMG)
3.3V
DMAA[0-14]
MSA[0-13]
DMAA[0-14]
FMD[0-23]
BWIND
CLK25M
CPA[0-8]
CDATA[8-15]
BMD[0-23]
MSOE
MSWE
RESET3
MCLK0
CPAS
CS2
HD74LVC32FPEL
IC3033
IC3033
IC3033
GND
+3V
VWIND
FWIND
BWIND
FMD[0-23]
CLK25M
CS2
RESET3
MCLK0
CPAS
CPA[0-8]
CDATA[8-15]
BMD[0-23]
MSOE
MSWE



(I/F Board)

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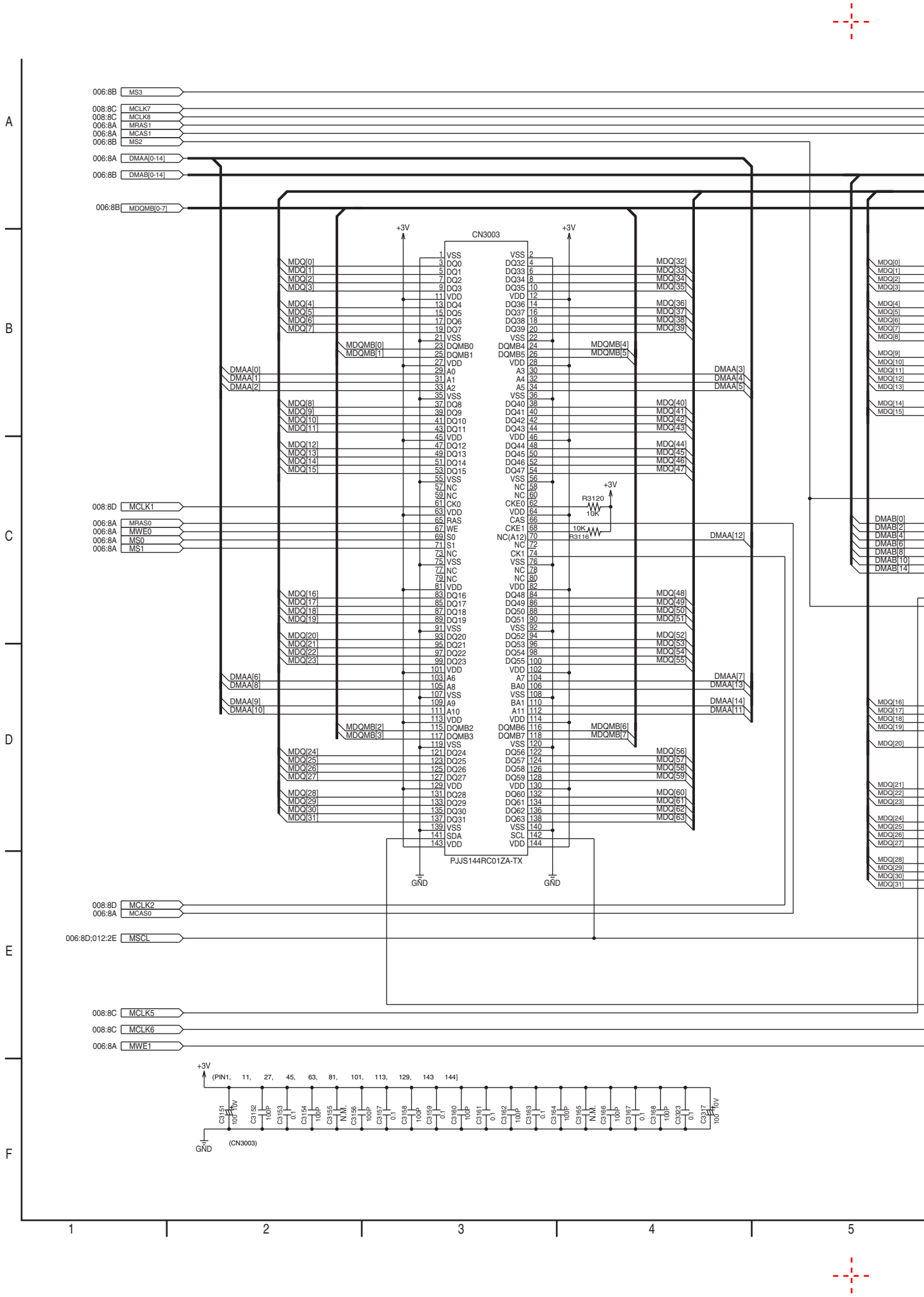
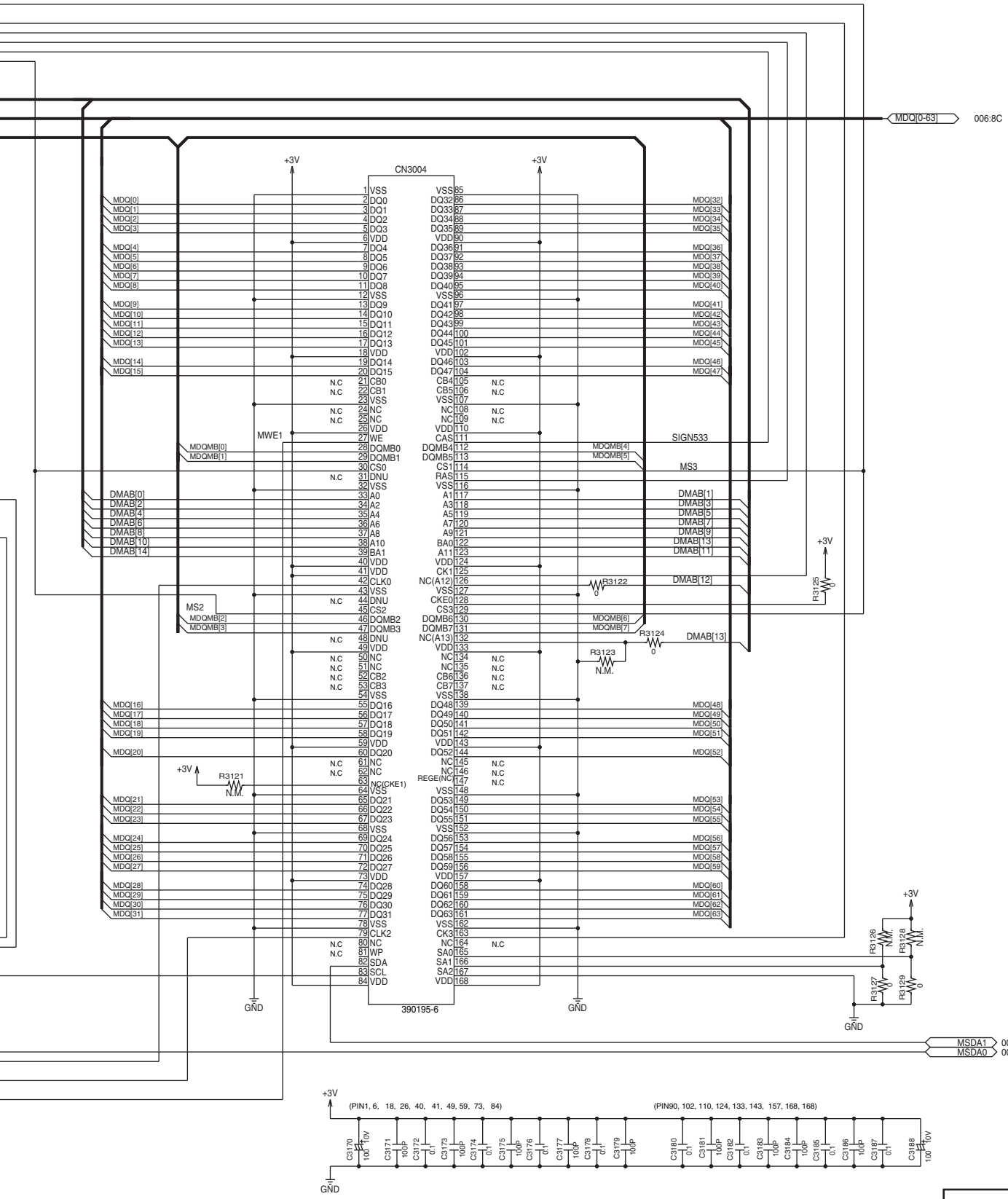
5 6 7 8


006:8B MS3
008:8C MCLK7
008:8C MCLK8
006:8A MRAS1
006:8A MCAS1
006:8B MS2
006:8A DMAA[0-14]
006:8B DMAB[0-14]
006:8B MDQMB[0-7]
CN3003
+3V
PJJS144RC01ZA-TX
GND
R3120 10K
R3116 10K
008:8D MCLK1
006:8A MRAS0
006:8A MWE0
006:8A MS0
006:8A MS1
008:8D MCLK2
006:8A MCAS0
006:8D;012:2E MSCL
008:8C MCLK5
008:8C MCLK6
006:8A MWE1
(PIN1, 11, 27, 45, 63, 81, 101, 113, 129, 143 144]
(CN3003)
A
B
C
D
E
F
1
2
3
4
5



(I/F Board)

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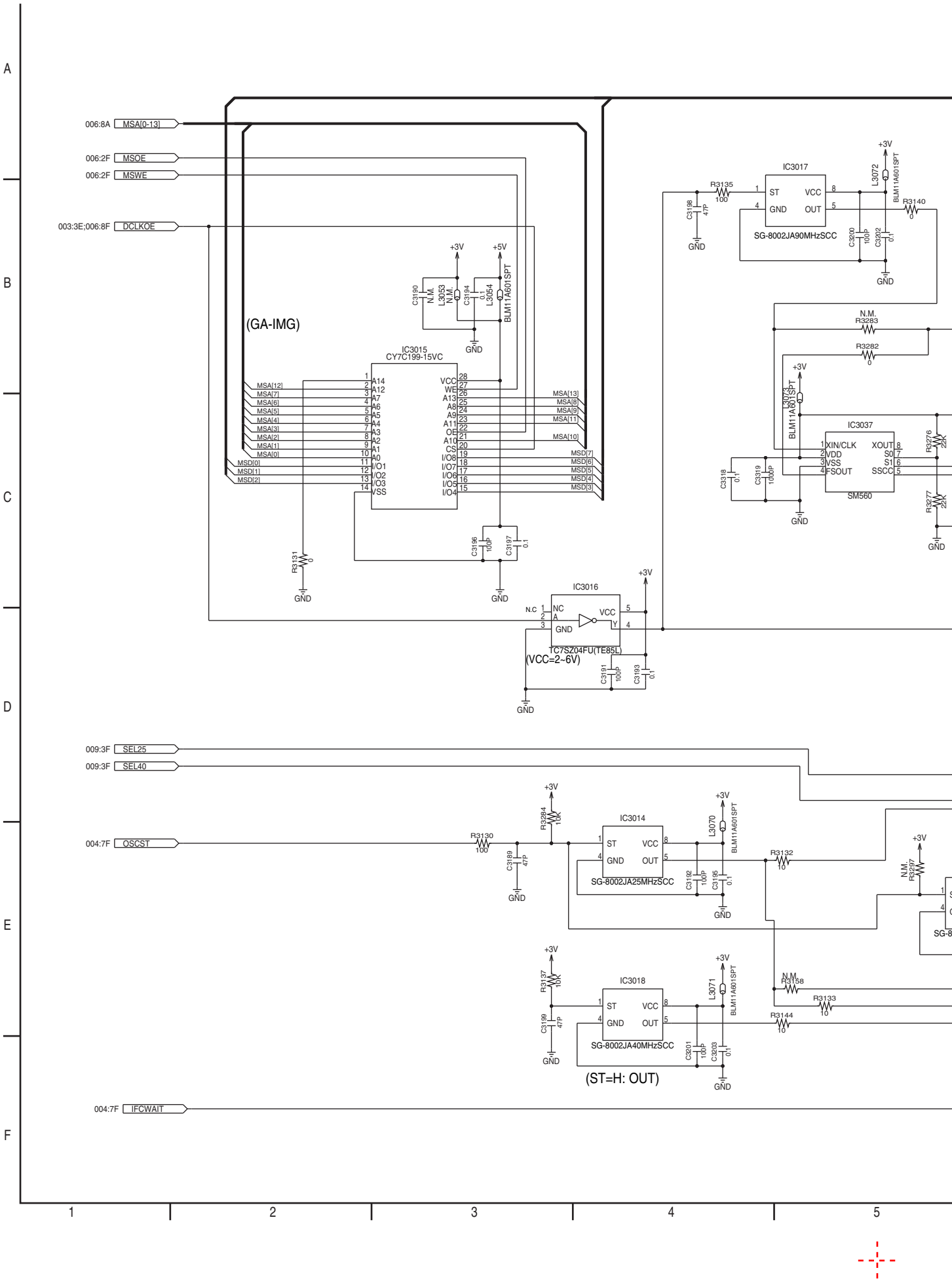
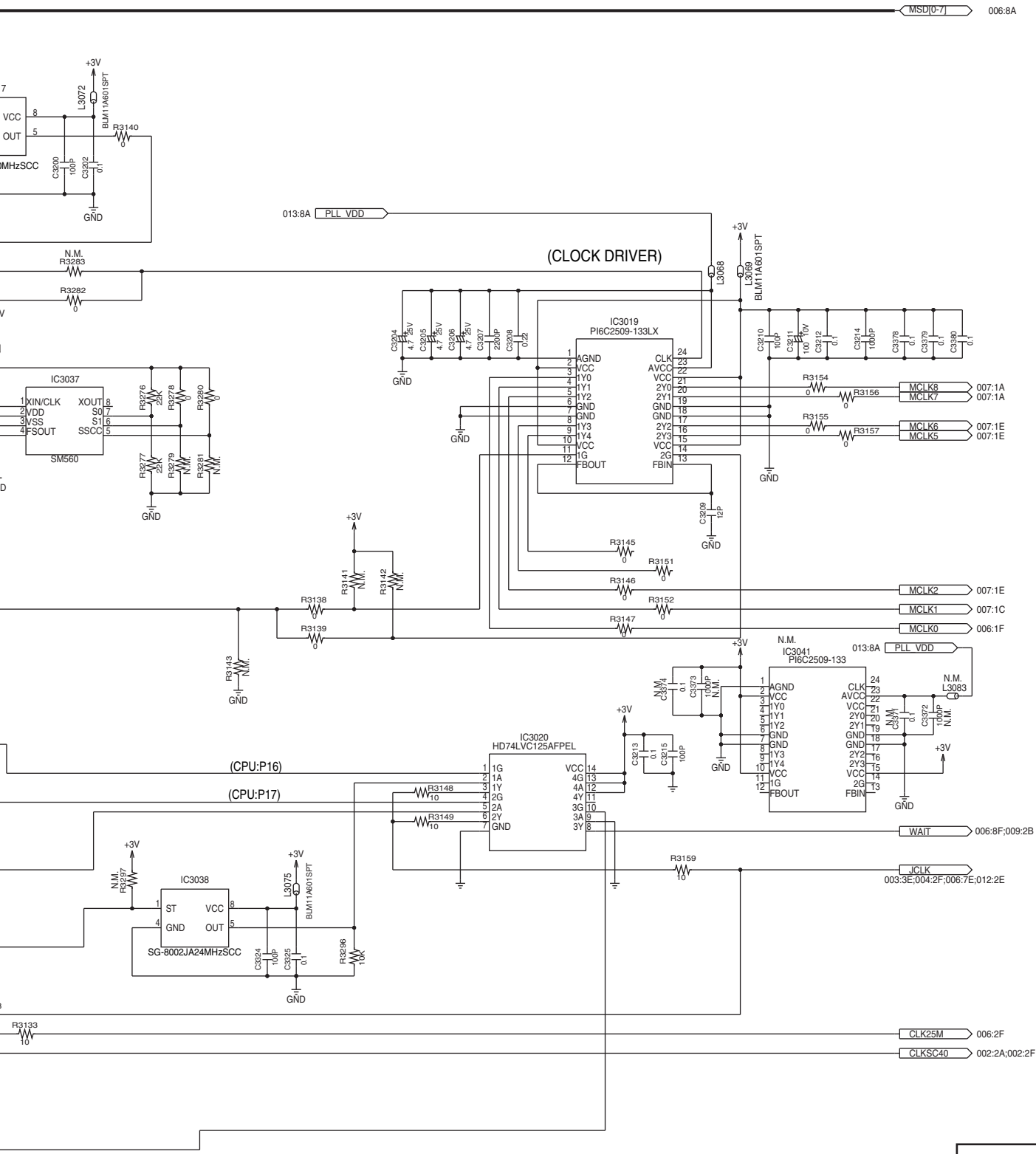

006:8A MSA[0-13]
006:2F MSOE
006:2F MSWE
003:3E;006:8F DCLKOE
(GA-IMG)
IC3015
CY7C199-15VC
IC3017
SG-8002JA90MHzSCC
IC3037
SM560
IC3016
TC7SZ04FU(TE85L)
(VCC=2~6V)
009:3F SEL25
009:3F SEL40
004:7F OSCST
IC3014
SG-8002JA25MHzSCC
IC3018
SG-8002JA40MHzSCC
(ST=H: OUT)
004:7F IFCWAIT
+3V
+5V
GND
N.M.
BLM11A601SPT
A
B
C
D
E
F
1
2
3
4
5



(I/F Board)

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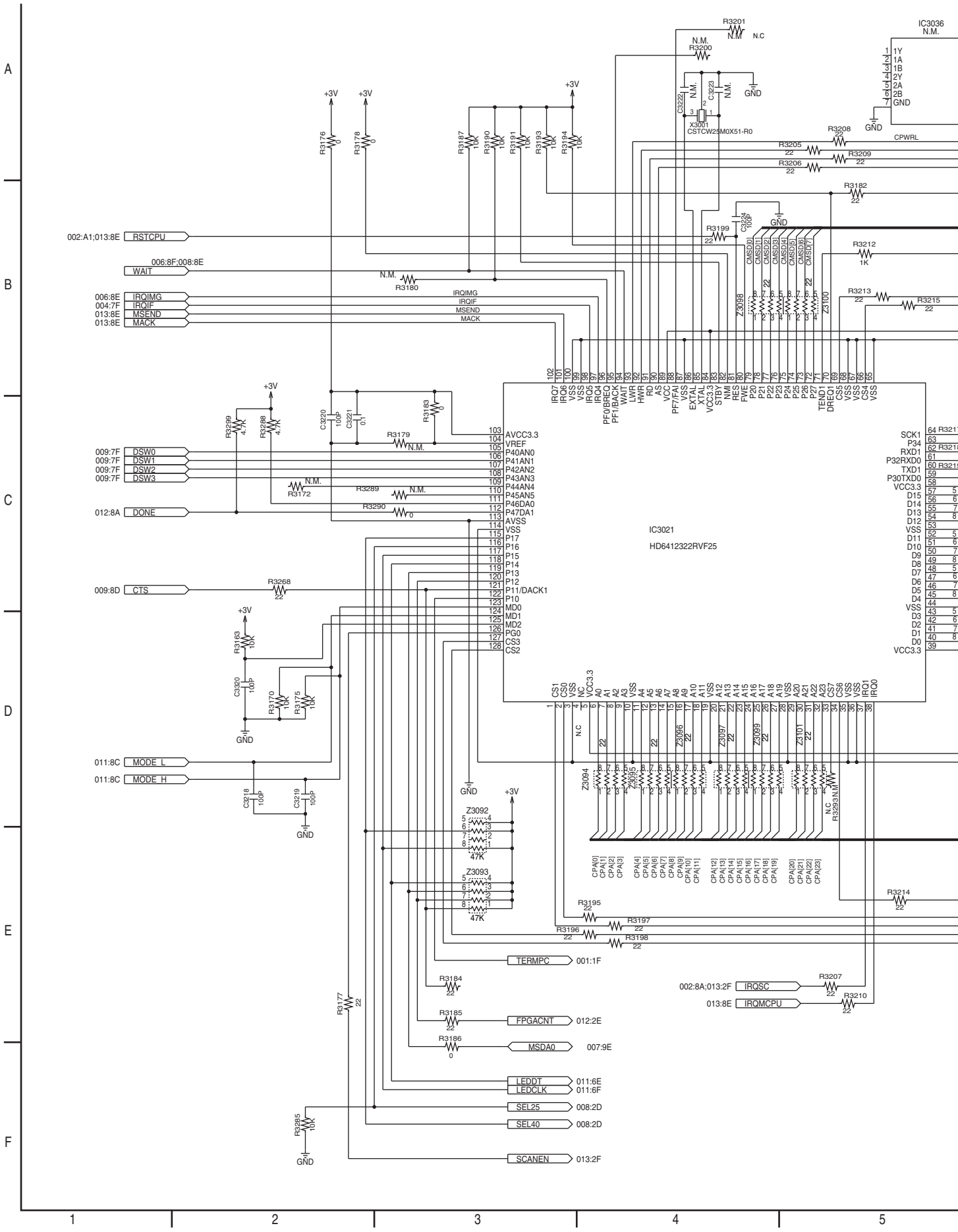
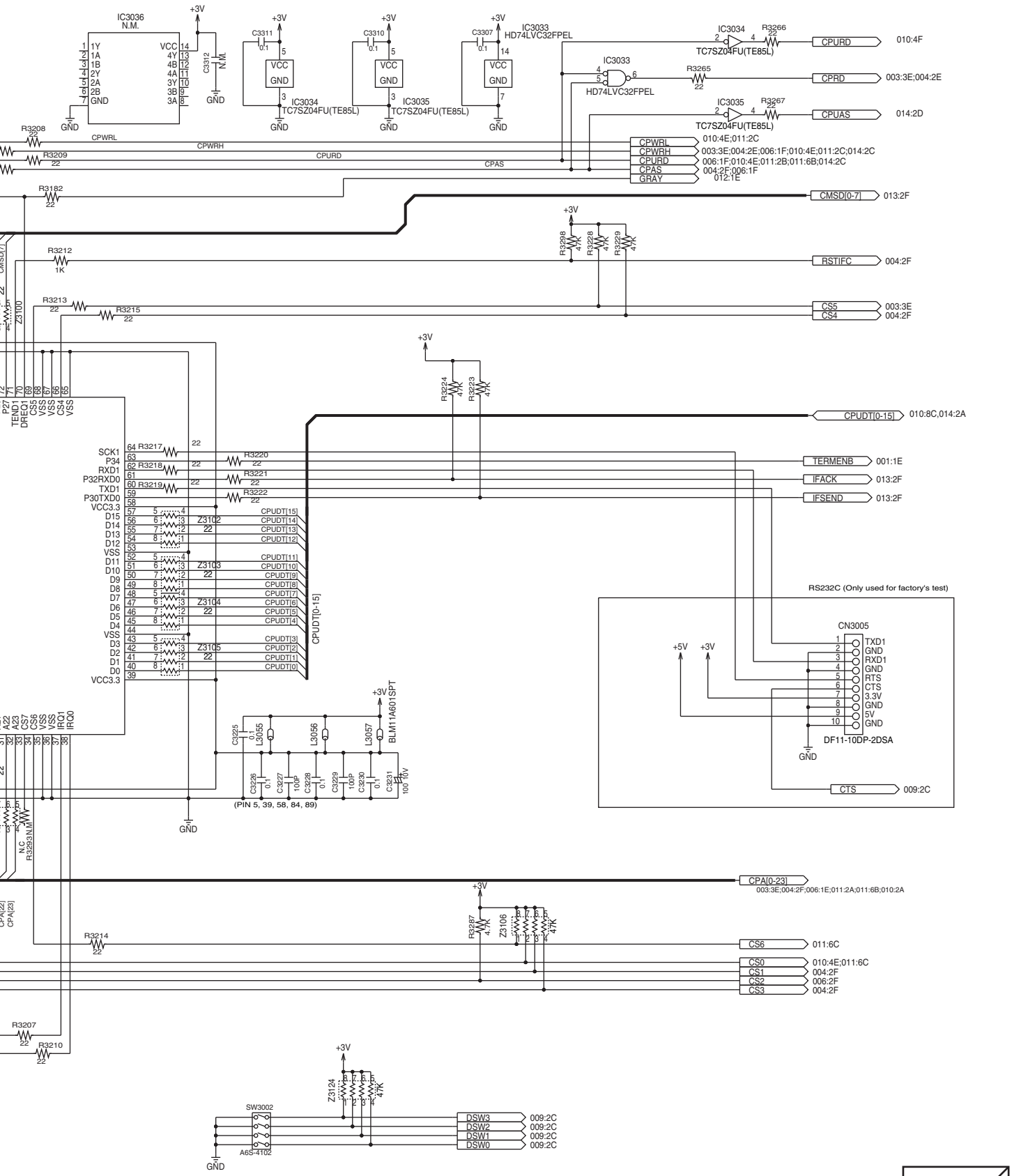
5 | 6 | 7 | 8


IC3021
HD6412322RVF25
IC3036
N.M.
RSTCPU
WAIT
IRQIMG
IRQIF
MSEND
MACK
DSW0
DSW1
DSW2
DSW3
DONE
CTS
MODE_L
MODE_H
TERMPC
FPGACNT
MSDA0
LEDDT
LEDCLK
SEL25
SEL40
SCANEN
IRQSC
IRQMCPU
CPWRL
X3301
CSTCW25M0X51-R0
+3V
GND
N.C
N.M.



(I/F Board)

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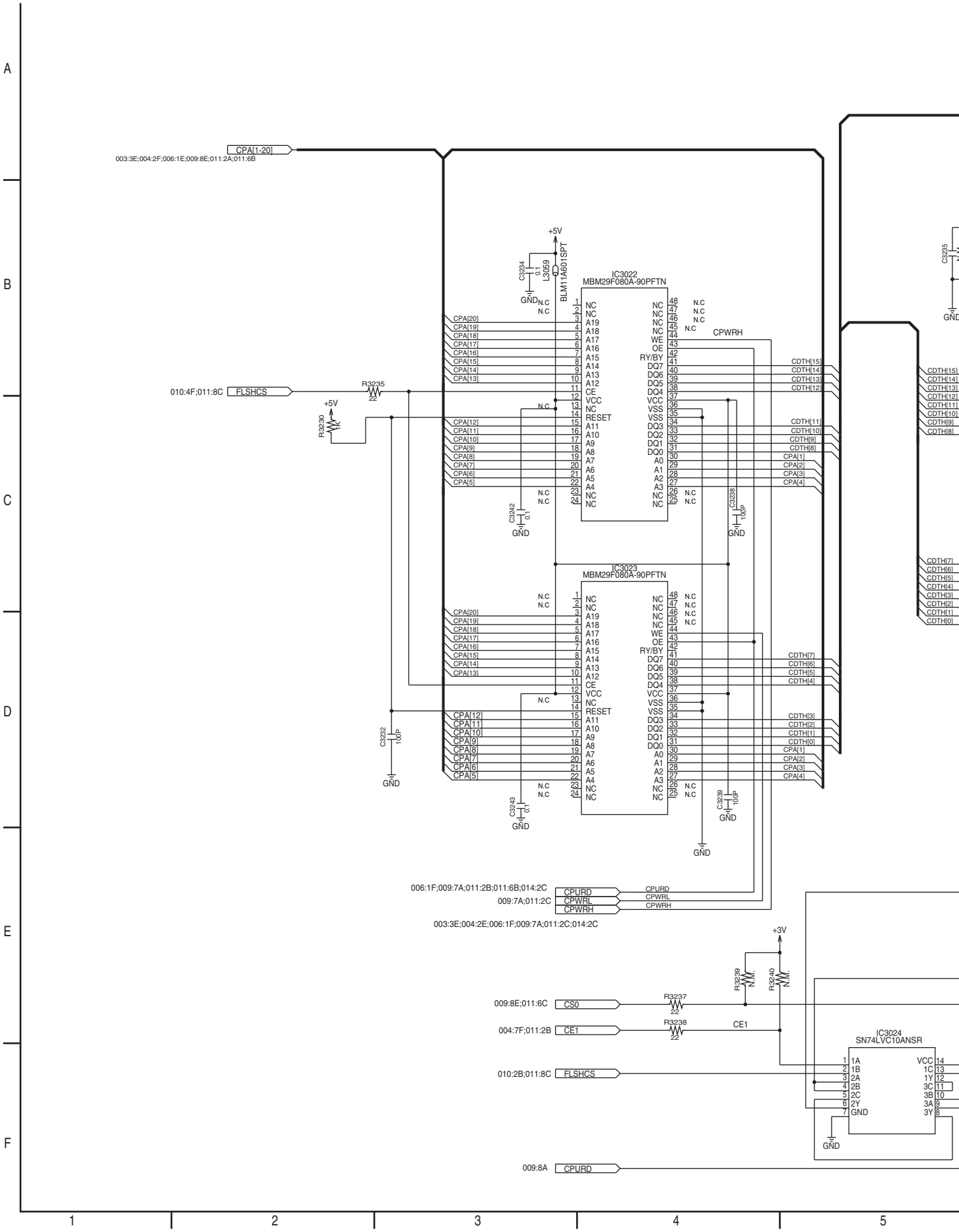
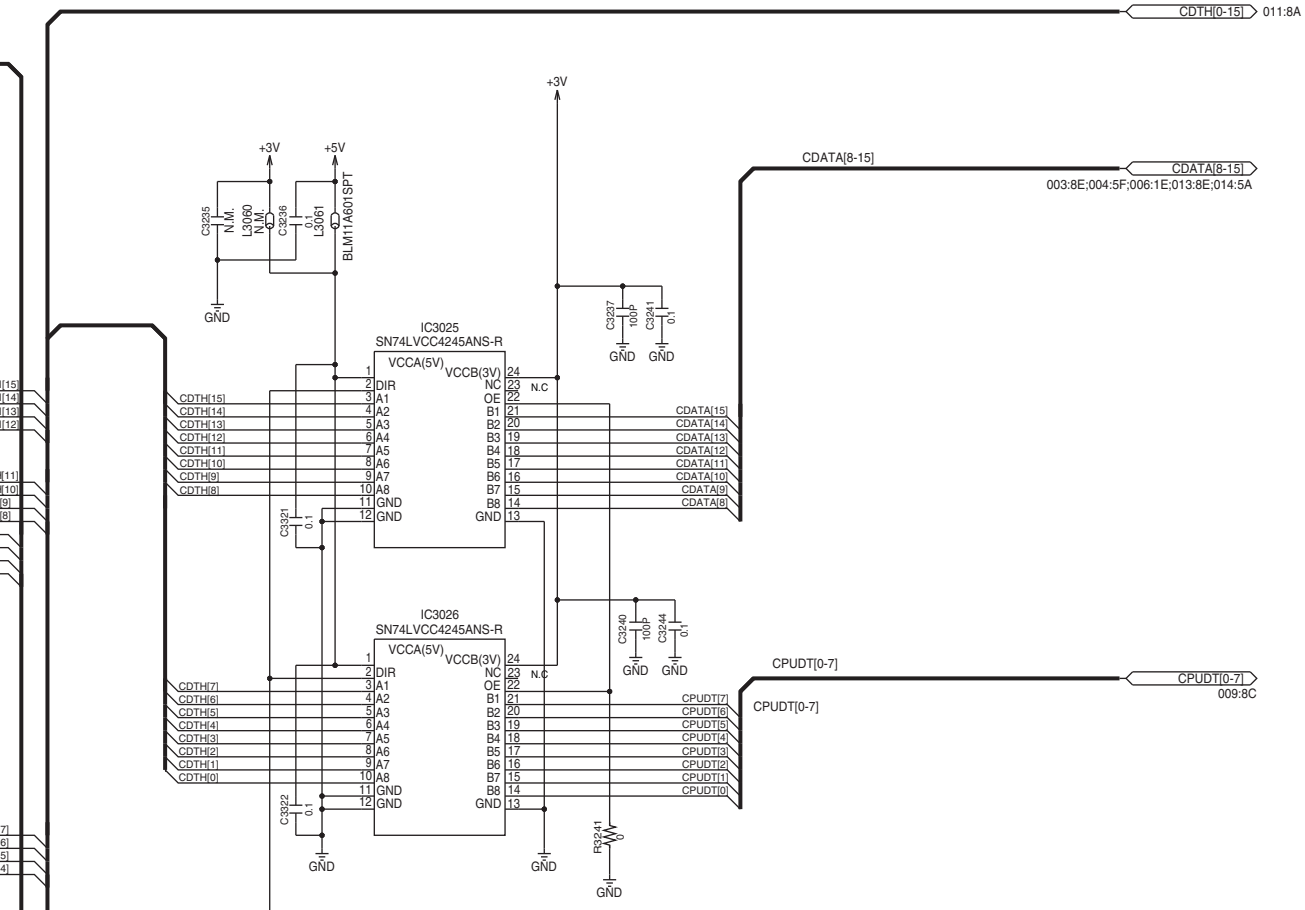
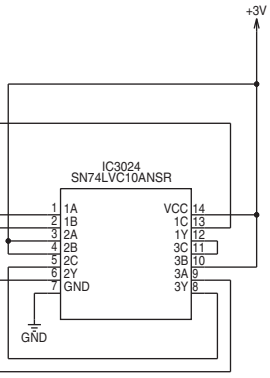

CPA[1-20]
003:3E;004:2F;006:1E;009:8E;011:2A;011:6B
+5V
C3234
0.1
L3059
BLM11A601SPT
IC3022
MBM29F080A-90PFTN
CPWRH
010:4F;011:8C
FLSHCS
R3235
22
+5V
R3230
1K
C3242
0.1
C3238
100P
GND
IC3023
MBM29F080A-90PFTN
C3232
100P
C3243
0.1
C3239
100P
006:1F;009:7A;011:2B;011:6B;014:2C
009:7A;011:2C
003:3E;004:2E;006:1F;009:7A;011:2C;014:2C
CPURD
CPWRL
CPWRH
+3V
R3239
N.M.
R3240
N.M.
009:8E;011:6C
CS0
R3237
22
004:7F;011:2B
CE1
R3238
22
IC3024
SN74LVC10ANSR
010:2B;011:8C
FLSHCS
009:8A
CPURD





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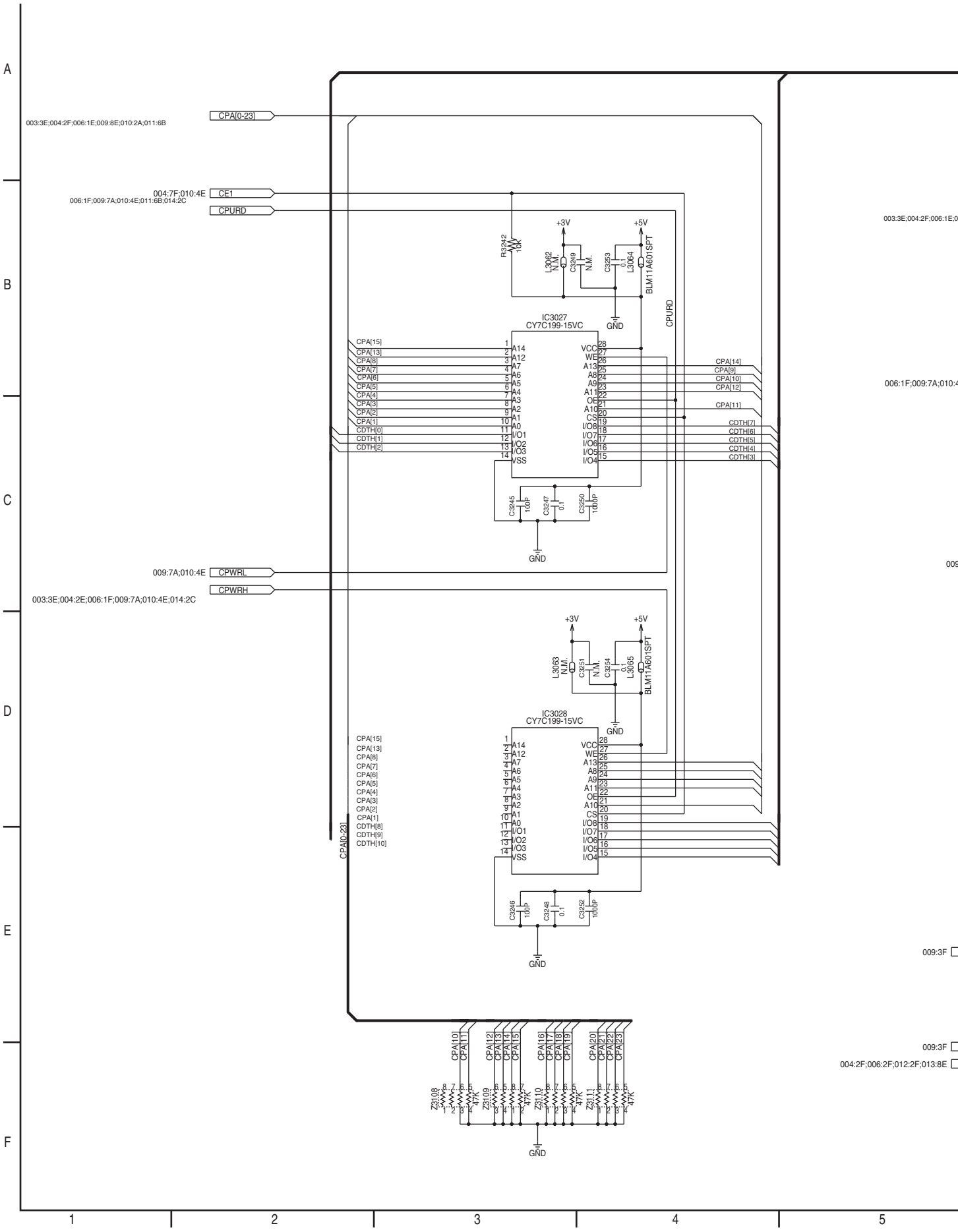
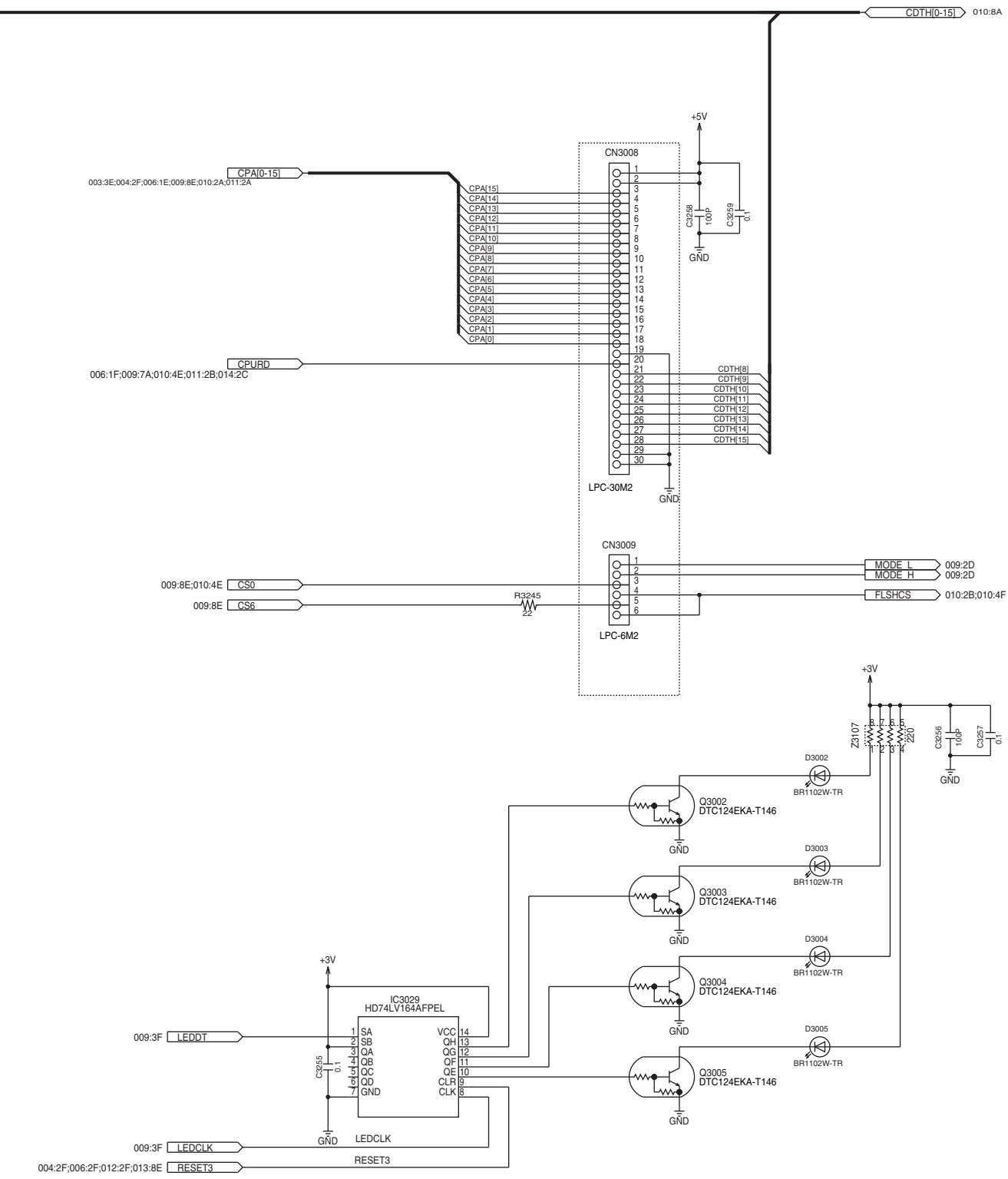

CPA[0-23]
003:3E;004:2F;006:1E;009:8E;010:2A;011:6B
004:7F;010:4E
CE1
006:1F;009:7A;010:4E;011:6B;014:2C
CPURD
009:7A;010:4E
CPWRL
CPWRH
003:3E;004:2E;006:1F;009:7A;010:4E;014:2C
+3V
+5V
GND
IC3027
CY7C199-15VC
IC3028
CY7C199-15VC
BLM11A601SPT
L3062
L3063
L3064
L3065
N.M.
R3242
10K
C3245
C3246
C3247
C3248
C3249
C3250
C3251
C3252
C3253
C3254
100P
0.1
1000P
CPA[15]
CPA[13]
CPA[8]
CPA[7]
CPA[6]
CPA[5]
CPA[4]
CPA[3]
CPA[2]
CPA[1]
CDTH[0]
CDTH[1]
CDTH[2]
CDTH[8]
CDTH[9]
CDTH[10]
CPA[14]
CPA[9]
CPA[10]
CPA[12]
CPA[11]
CDTH[7]
CDTH[6]
CDTH[5]
CDTH[4]
CDTH[3]
CPA[0-23]
CPA[10]
CPA[11]
CPA[12]
CPA[13]
CPA[14]
CPA[15]
CPA[16]
CPA[17]
CPA[18]
CPA[19]
CPA[20]
CPA[21]
CPA[22]
CPA[23]
Z3108
Z3109
Z3110
Z3111
47K
003:3E;004:2F;006:1E;0
006:1F;009:7A;010:4
009
009:3F
009:3F
004:2F;006:2F;012:2F;013:8E
A
B
C
D
E
F
1
2
3
4
5



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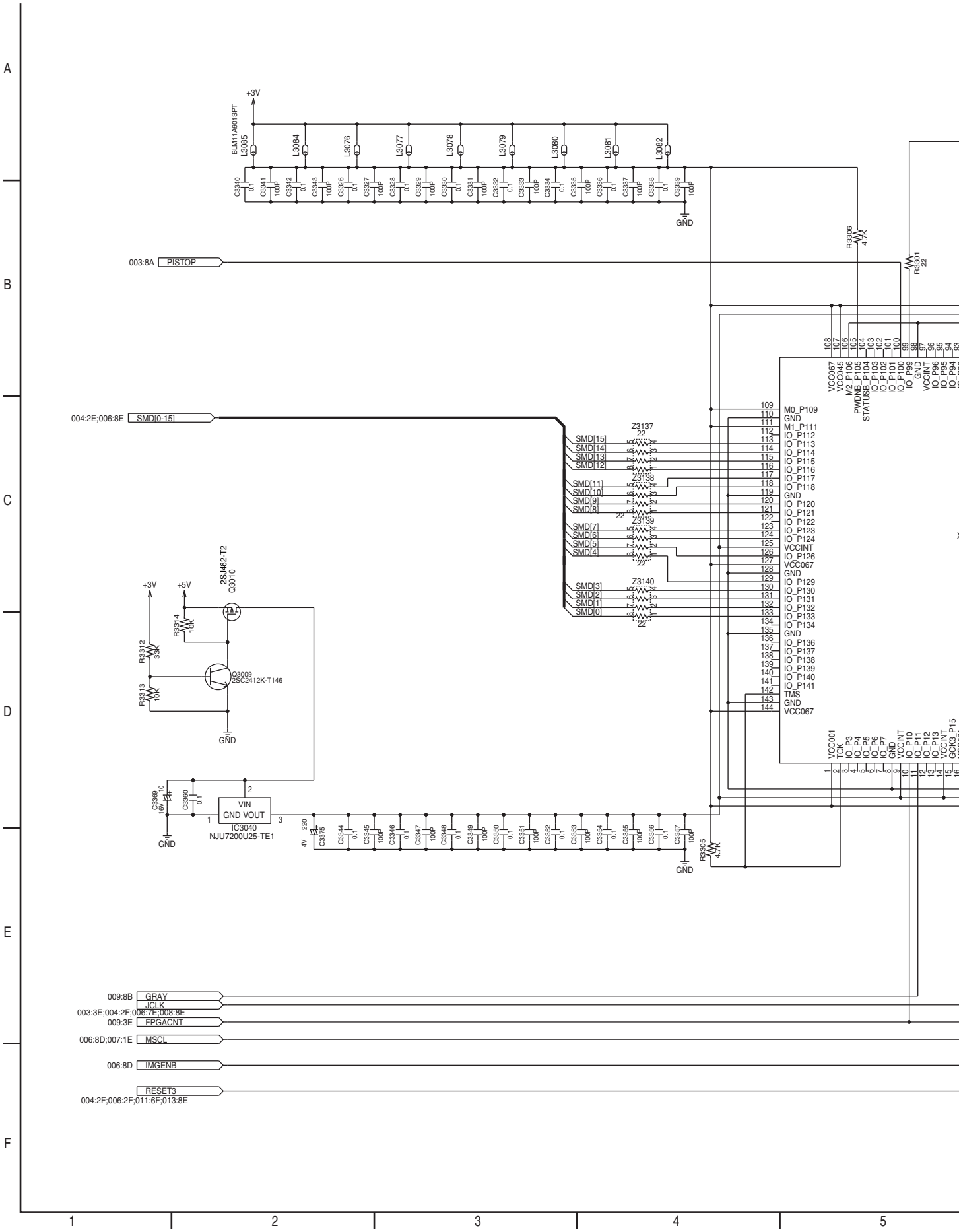
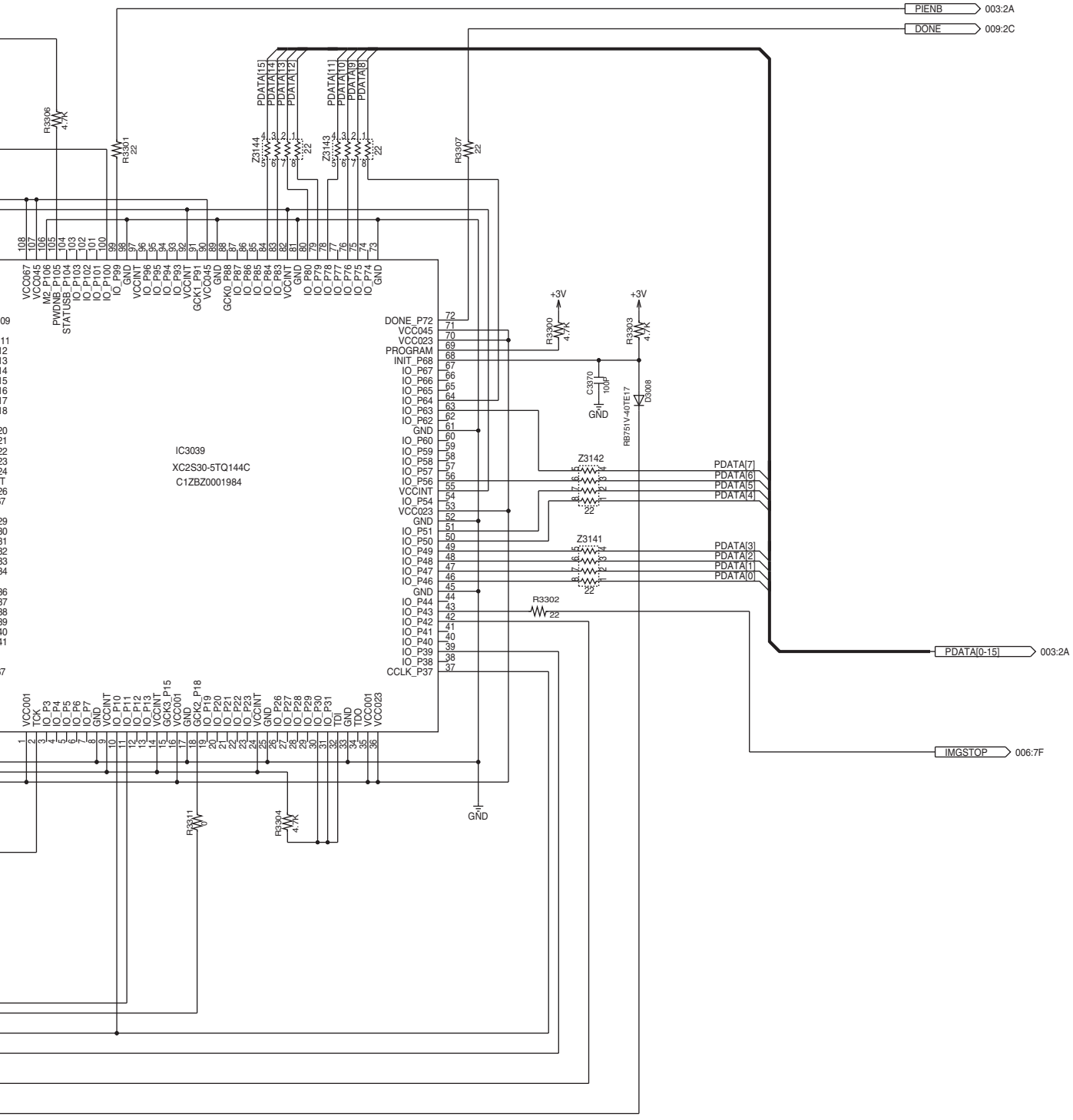

+3V
BLM11A601SPT
L3085
L3084
L3076
L3077
L3078
L3079
L3080
L3081
L3082
C3340
C3341
C3342
C3343
C3326
C3327
C3328
C3329
C3330
C3331
C3332
C3333
C3334
C3335
C3336
C3337
C3338
C3339
GND
R3306
4.7K
R3301
22
003:8A PISTOP
004:2E;006:8E SMD[0-15]
Z3137
Z3138
Z3139
Z3140
SMD[15]
SMD[14]
SMD[13]
SMD[12]
SMD[11]
SMD[10]
SMD[9]
SMD[8]
SMD[7]
SMD[6]
SMD[5]
SMD[4]
SMD[3]
SMD[2]
SMD[1]
SMD[0]
M0_P109
GND
M1_P111
IO_P112
IO_P113
IO_P114
IO_P115
IO_P116
IO_P117
IO_P118
GND
IO_P120
IO_P121
IO_P122
IO_P123
IO_P124
VCCINT
IO_P126
VCC067
GND
IO_P129
IO_P130
IO_P131
IO_P132
IO_P133
IO_P134
GND
IO_P136
IO_P137
IO_P138
IO_P139
IO_P140
IO_P141
TMS
GND
VCC067
VCC067
VCC045
M2_P106
PWDNB_P105
STATUSB_P104
IO_P103
IO_P102
IO_P101
IO_P100
IO_P99
GND
VCCINT
IO_P96
IO_P95
IO_P94
VCC001
TCK
IO_P3
IO_P4
IO_P5
IO_P6
IO_P7
GND
VCCINT
IO_P10
IO_P11
IO_P12
IO_P13
VCCINT
GCK3_P15
2SJ462-T2
Q3010
+3V
+5V
R3314
10K
R3312
33K
R3313
10K
Q3009
2SC2412K-T146
GND
C3369
16V
10
C3360
0.1
VIN
GND VOUT
IC3040
NJU7200U25-TE1
4V
220
C3375
C3344
C3345
C3346
C3347
C3348
C3349
C3350
C3351
C3352
C3353
C3354
C3355
C3356
C3357
R3305
4.7K
009:8B GRAY
JCLK
003:3E;004:2F;006:7E;008:8E
009:3E FPGACNT
006:8D;007:1E MSCL
006:8D IMGENB
RESET3
004:2F;006:2F;011:6F;013:8E



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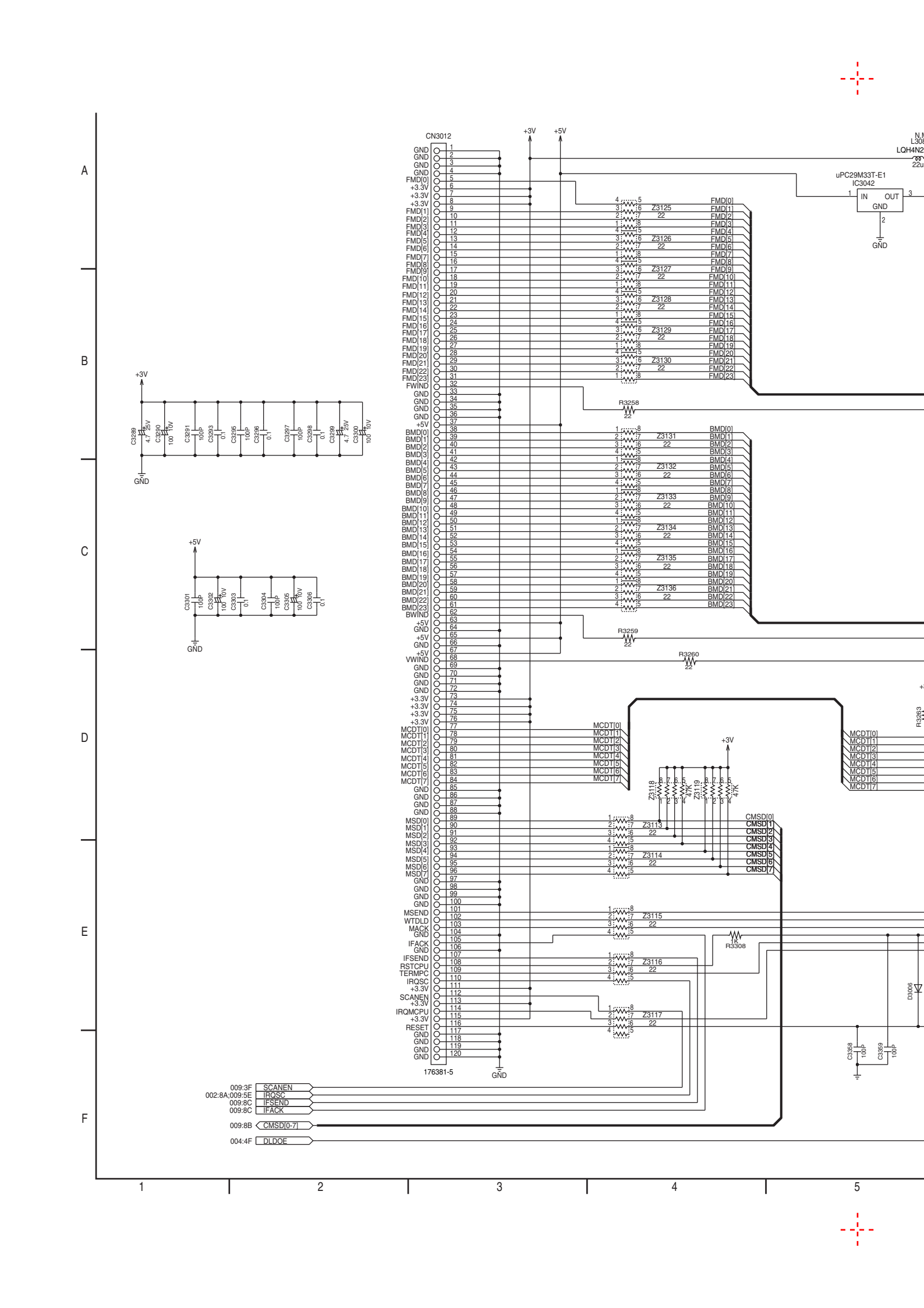
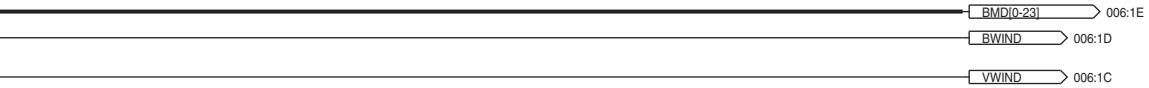
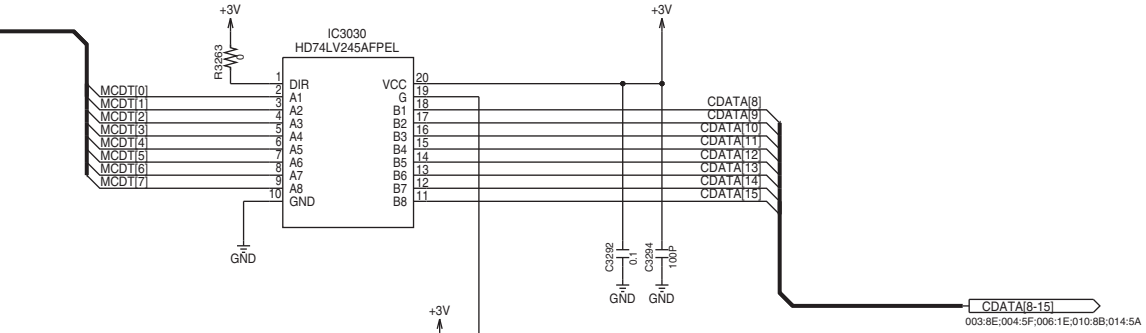
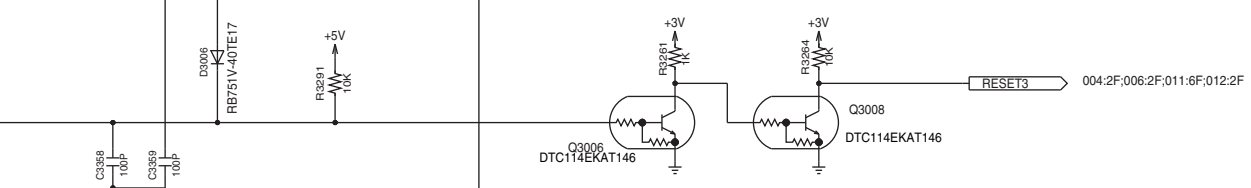

CN3012
176381-5
uPC29M33T-E1
IC3042
IN
OUT
GND
+3V
+5V
FMD[0]
FMD[1]
FMD[2]
FMD[3]
FMD[4]
FMD[5]
FMD[6]
FMD[7]
FMD[8]
FMD[9]
FMD[10]
FMD[11]
FMD[12]
FMD[13]
FMD[14]
FMD[15]
FMD[16]
FMD[17]
FMD[18]
FMD[19]
FMD[20]
FMD[21]
FMD[22]
FMD[23]
FWIND
BMD[0]
BMD[1]
BMD[2]
BMD[3]
BMD[4]
BMD[5]
BMD[6]
BMD[7]
BMD[8]
BMD[9]
BMD[10]
BMD[11]
BMD[12]
BMD[13]
BMD[14]
BMD[15]
BMD[16]
BMD[17]
BMD[18]
BMD[19]
BMD[20]
BMD[21]
BMD[22]
BMD[23]
BWIND
VWIND
MCDT[0]
MCDT[1]
MCDT[2]
MCDT[3]
MCDT[4]
MCDT[5]
MCDT[6]
MCDT[7]
MSD[0]
MSD[1]
MSD[2]
MSD[3]
MSD[4]
MSD[5]
MSD[6]
MSD[7]
CMSD[0]
CMSD[1]
CMSD[2]
CMSD[3]
CMSD[4]
CMSD[5]
CMSD[6]
CMSD[7]
MSEND
WTDLD
MACK
IFACK
IFSEND
RSTCPU
TERMPC
IRQSC
SCANEN
IRQMCPU
RESET
Z3125
Z3126
Z3127
Z3128
Z3129
Z3130
Z3131
Z3132
Z3133
Z3134
Z3135
Z3136
Z3113
Z3114
Z3115
Z3116
Z3117
Z3118
Z3119
22
47K
1K
R3258
R3259
R3260
R3263
R3308
D3006
C3289
C3290
C3291
C3293
C3295
C3296
C3297
C3298
C3299
C3300
C3301
C3302
C3303
C3304
C3305
C3306
C3358
C3359
009:3F SCANEN
002:8A;009:5E IRQSC
009:8C IFSEND
009:8C IFACK
009:8B CMSD[0-7]
004:4F DLDOE







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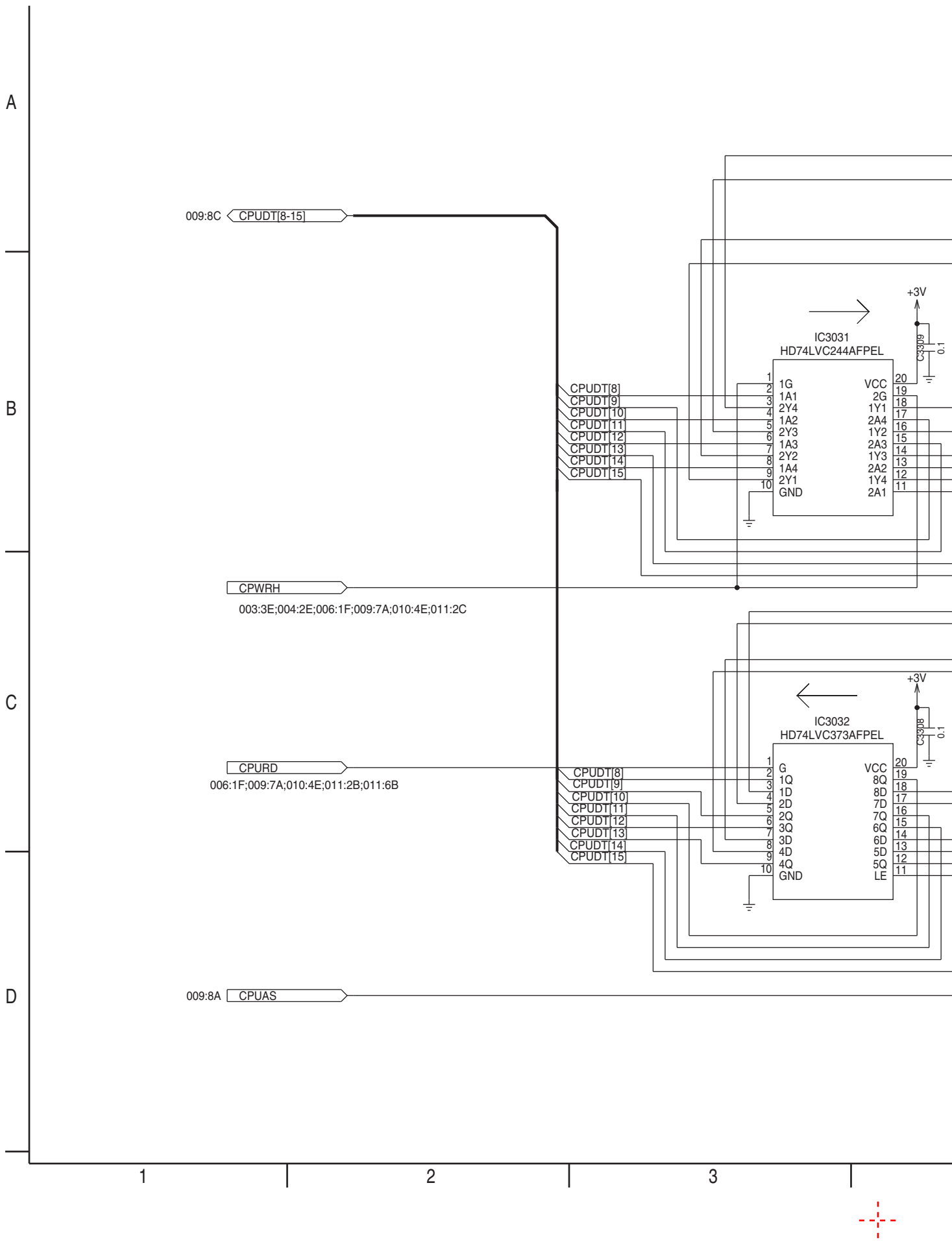
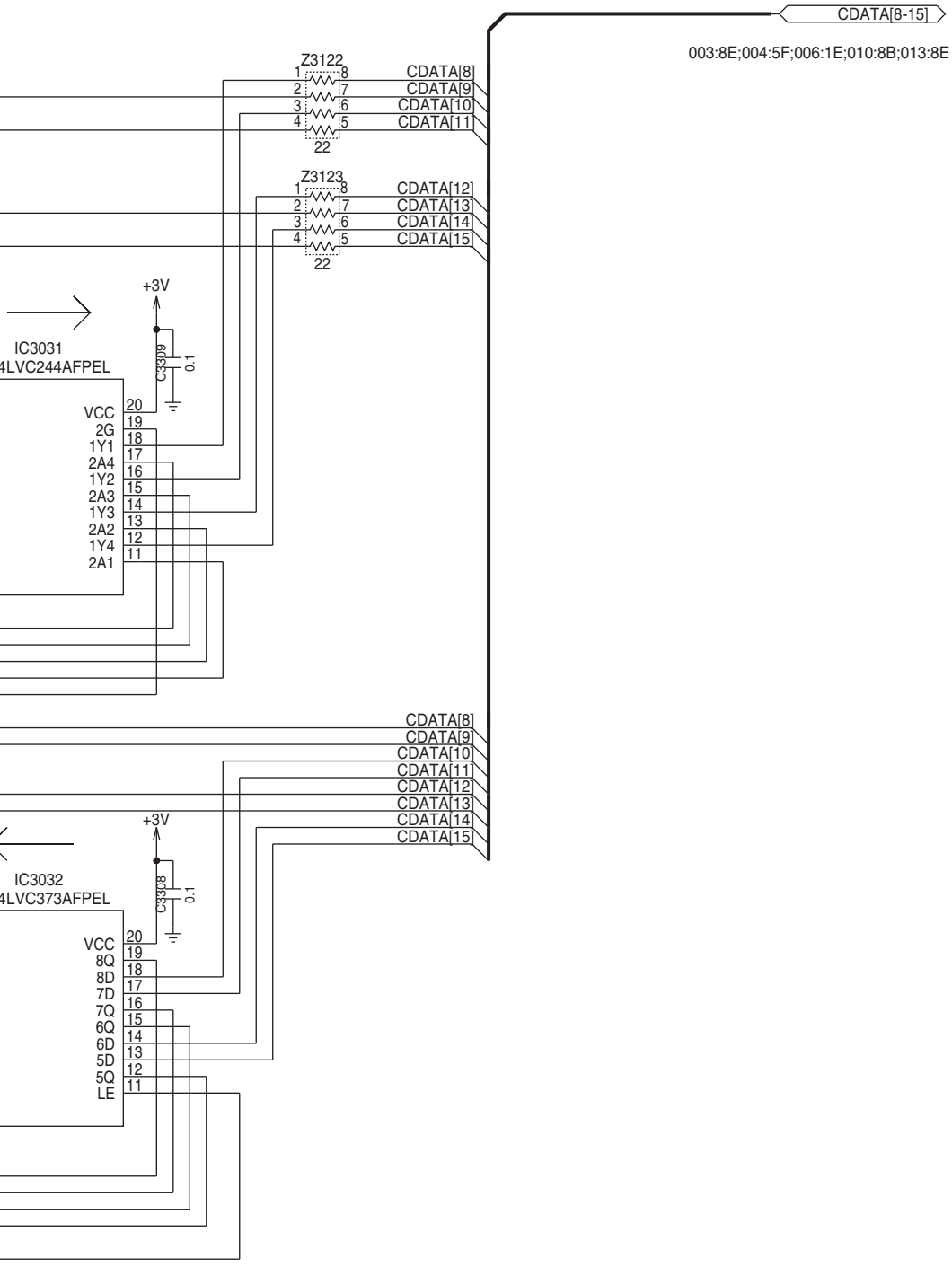

009:8C CPUDT[8-15]
CPUDT[8]
CPUDT[9]
CPUDT[10]
CPUDT[11]
CPUDT[12]
CPUDT[13]
CPUDT[14]
CPUDT[15]
IC3031
HD74LVC244AFPEL
1G
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
+3V
C3309
0.1
CPWRH
003:3E;004:2E;006:1F;009:7A;010:4E;011:2C
CPURD
006:1F;009:7A;010:4E;011:2B;011:6B
IC3032
HD74LVC373AFPEL
G
1Q
1D
2D
2Q
3Q
3D
4D
4Q
GND
VCC
8Q
8D
7D
7Q
6Q
6D
5D
5Q
LE
C3308
009:8A CPUAS
A
B
C
D
1
2
3



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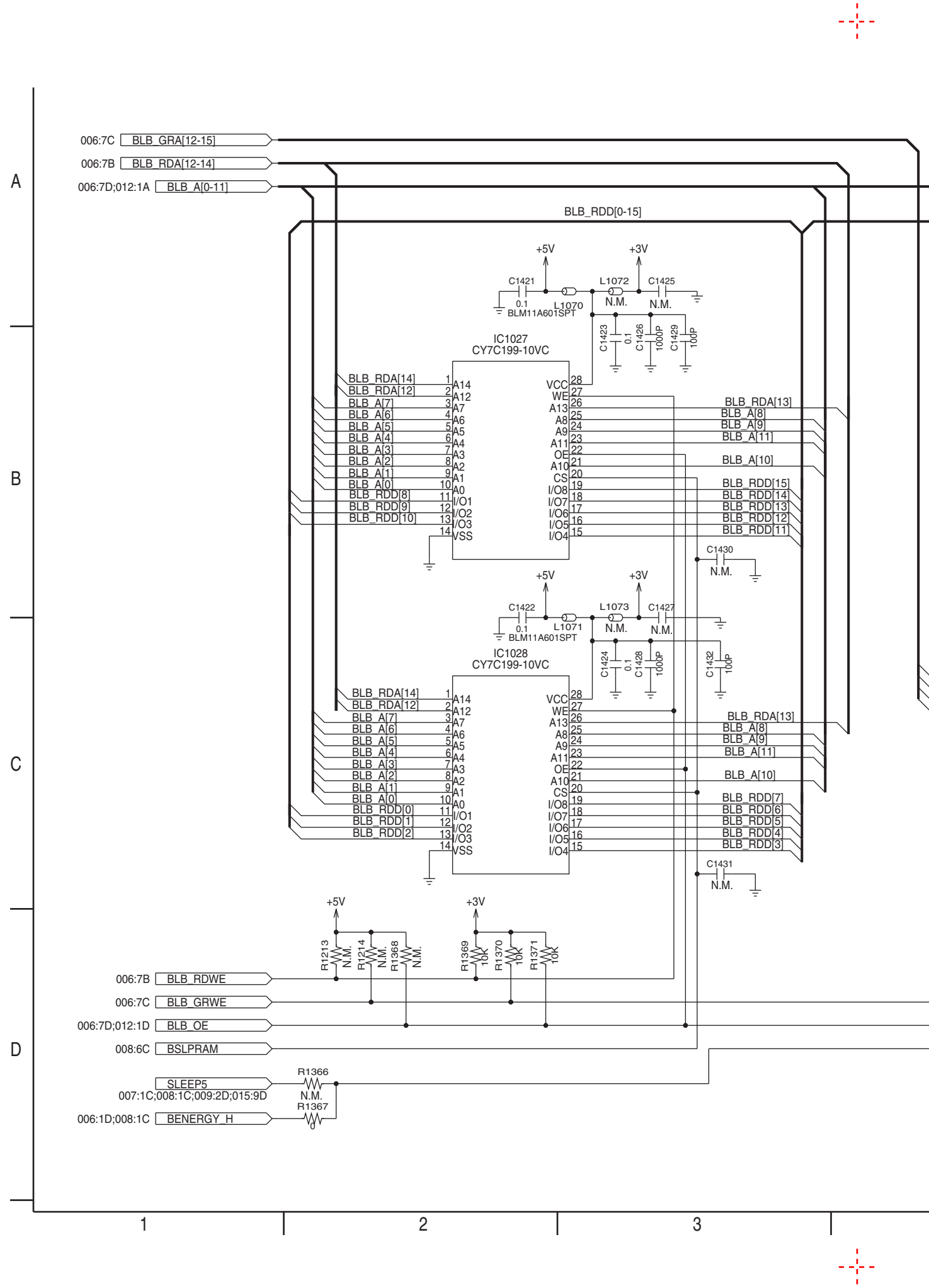
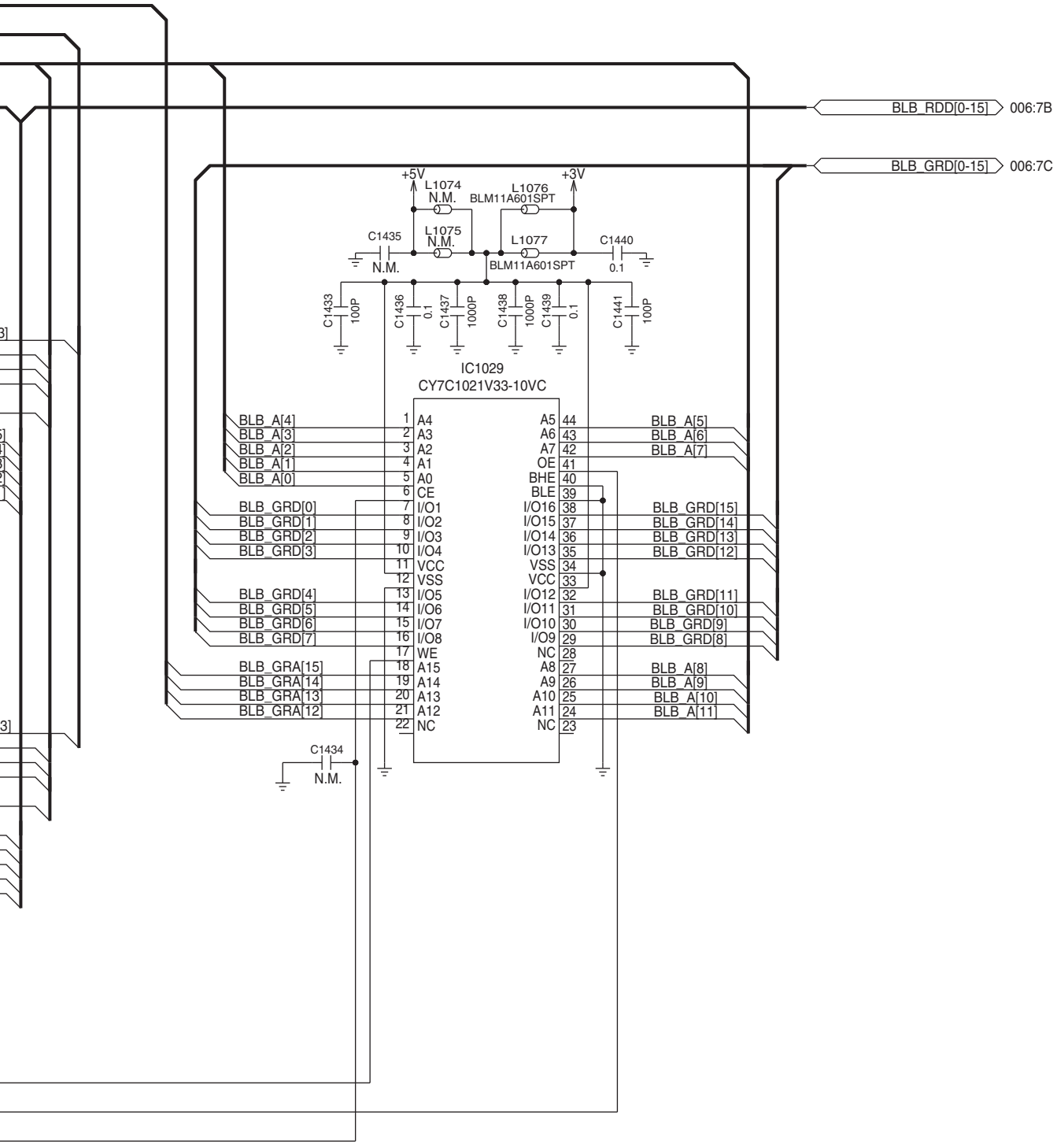

006:7C BLB_GRA[12-15]
006:7B BLB_RDA[12-14]
006:7D;012:1A BLB_A[0-11]
BLB_RDD[0-15]
+5V
+3V
C1421
0.1
L1070
BLM11A601SPT
L1072
N.M.
C1425
N.M.
C1423
0.1
C1426
1000P
C1429
100P
IC1027
CY7C199-10VC
BLB_RDA[14]
BLB_RDA[12]
BLB_A[7]
BLB_A[6]
BLB_A[5]
BLB_A[4]
BLB_A[3]
BLB_A[2]
BLB_A[1]
BLB_A[0]
BLB_RDD[8]
BLB_RDD[9]
BLB_RDD[10]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
BLB_RDA[13]
BLB_A[8]
BLB_A[9]
BLB_A[11]
BLB_A[10]
BLB_RDD[15]
BLB_RDD[14]
BLB_RDD[13]
BLB_RDD[12]
BLB_RDD[11]
C1430
N.M.
C1422
0.1
L1071
BLM11A601SPT
L1073
N.M.
C1427
N.M.
C1424
0.1
C1428
1000P
C1432
100P
IC1028
CY7C199-10VC
BLB_RDD[0]
BLB_RDD[1]
BLB_RDD[2]
BLB_RDD[7]
BLB_RDD[6]
BLB_RDD[5]
BLB_RDD[4]
BLB_RDD[3]
C1431
N.M.
R1213
N.M.
R1214
N.M.
R1368
N.M.
R1369
10K
R1370
10K
R1371
10K
006:7B BLB_RDWE
006:7C BLB_GRWE
006:7D;012:1D BLB_OE
008:6C BSLPRAM
SLEEP5
007:1C;008:1C;009:2D;015:9D
R1366
N.M.
R1367
0
006:1D;008:1C BENERGY_H
A
B
C
D
1
2
3



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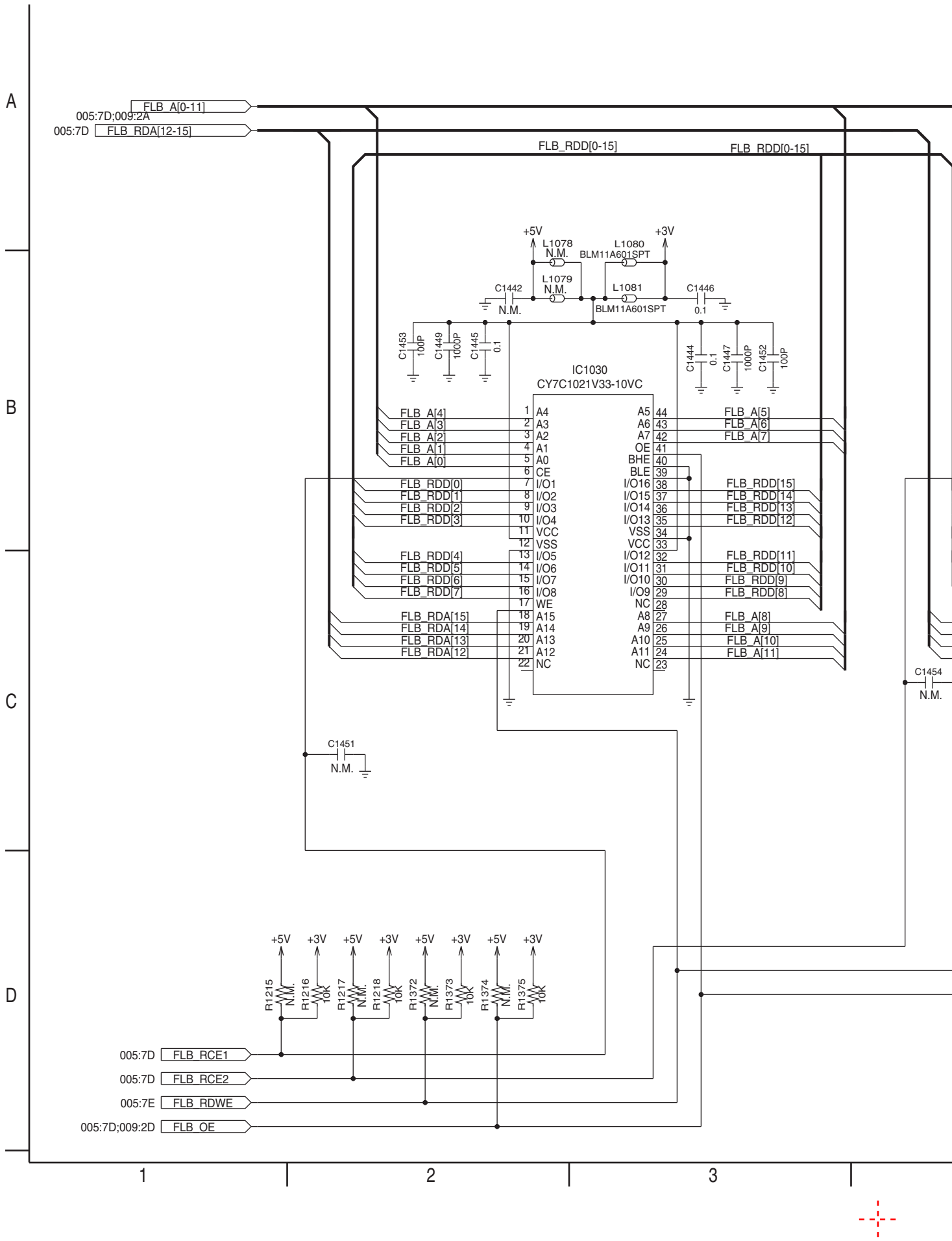
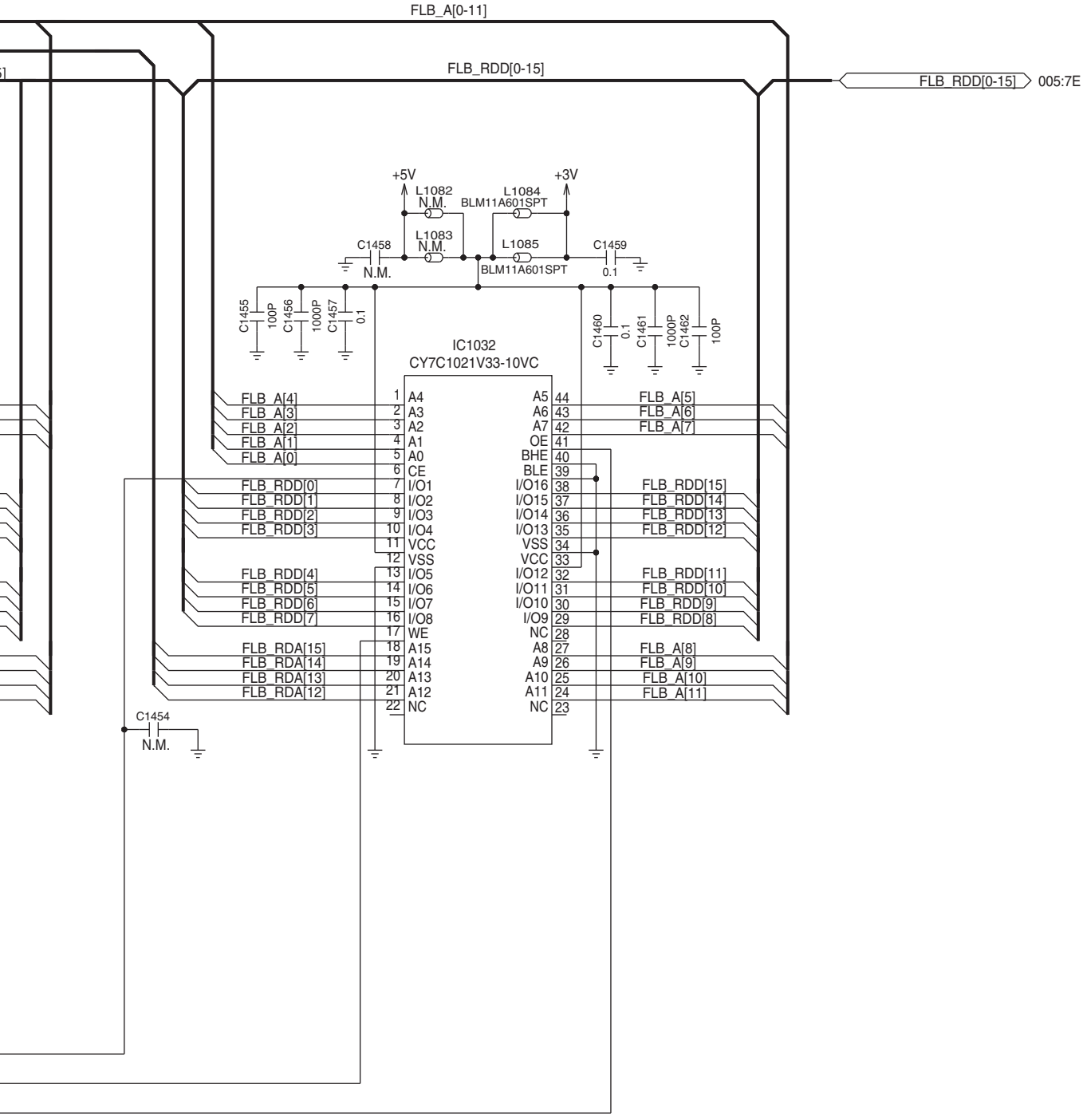

A
B
C
D
1
2
3
FLB_A[0-11]
005:7D;009:2A
005:7D
FLB_RDA[12-15]
FLB_RDD[0-15]
FLB_RDD[0-15]
+5V
+3V
L1078
N.M.
L1080
BLM11A601SPT
L1079
N.M.
L1081
BLM11A601SPT
C1442
N.M.
C1446
0.1
C1453
100P
C1449
1000P
C1445
0.1
C1444
0.1
C1447
1000P
C1452
100P
IC1030
CY7C1021V33-10VC
FLB_A[4]
FLB_A[3]
FLB_A[2]
FLB_A[1]
FLB_A[0]
FLB_RDD[0]
FLB_RDD[1]
FLB_RDD[2]
FLB_RDD[3]
FLB_RDD[4]
FLB_RDD[5]
FLB_RDD[6]
FLB_RDD[7]
FLB_RDA[15]
FLB_RDA[14]
FLB_RDA[13]
FLB_RDA[12]
A4
A3
A2
A1
A0
CE
I/O1
I/O2
I/O3
I/O4
VCC
VSS
I/O5
I/O6
I/O7
I/O8
WE
A15
A14
A13
A12
NC
A5
A6
A7
OE
BHE
BLE
I/O16
I/O15
I/O14
I/O13
VSS
VCC
I/O12
I/O11
I/O10
I/O9
NC
A8
A9
A10
A11
NC
FLB_A[5]
FLB_A[6]
FLB_A[7]
FLB_RDD[15]
FLB_RDD[14]
FLB_RDD[13]
FLB_RDD[12]
FLB_RDD[11]
FLB_RDD[10]
FLB_RDD[9]
FLB_RDD[8]
FLB_A[8]
FLB_A[9]
FLB_A[10]
FLB_A[11]
C1454
N.M.
C1451
N.M.
R1215
N.M.
R1216
10K
R1217
N.M.
R1218
10K
R1372
N.M.
R1373
10K
R1374
N.M.
R1375
10K
005:7D
FLB_RCE1
005:7D
FLB_RCE2
005:7E
FLB_RDWE
005:7D;009:2D
FLB_OE



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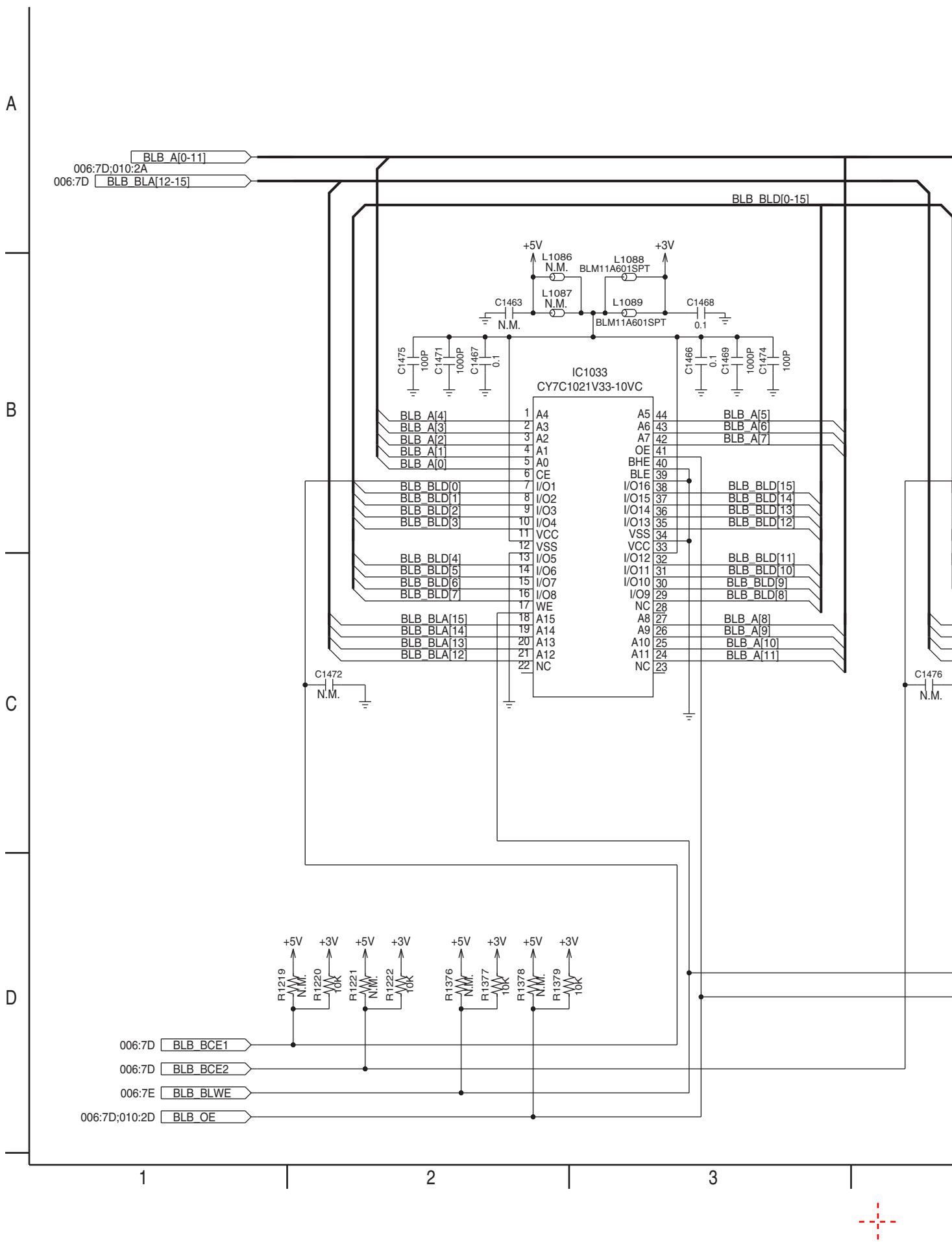
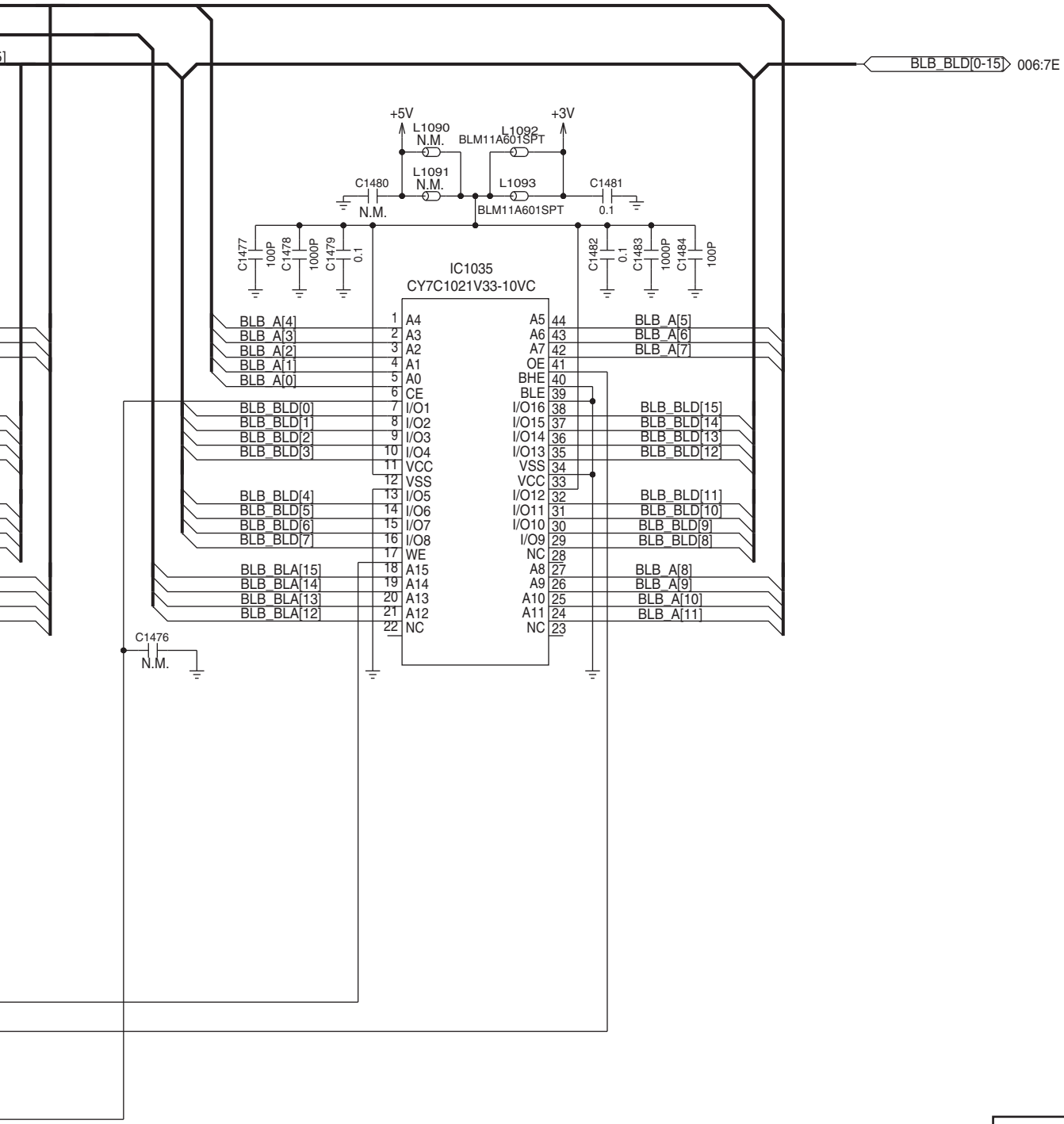

BLB_A[0-11]
006:7D;010:2A
006:7D
BLB_BLA[12-15]
BLB_BLD[0-15]
+5V
+3V
L1086
N.M.
L1088
BLM11A601SPT
L1087
N.M.
L1089
BLM11A601SPT
C1463
N.M.
C1468
0.1
C1475
100P
C1471
1000P
C1467
0.1
C1466
0.1
C1469
1000P
C1474
100P
IC1033
CY7C1021V33-10VC
BLB_A[4]
BLB_A[3]
BLB_A[2]
BLB_A[1]
BLB_A[0]
BLB_BLD[0]
BLB_BLD[1]
BLB_BLD[2]
BLB_BLD[3]
BLB_BLD[4]
BLB_BLD[5]
BLB_BLD[6]
BLB_BLD[7]
BLB_BLA[15]
BLB_BLA[14]
BLB_BLA[13]
BLB_BLA[12]
A4
A3
A2
A1
A0
CE
I/O1
I/O2
I/O3
I/O4
VCC
VSS
I/O5
I/O6
I/O7
I/O8
WE
A15
A14
A13
A12
NC
A5
A6
A7
OE
BHE
BLE
I/O16
I/O15
I/O14
I/O13
VSS
VCC
I/O12
I/O11
I/O10
I/O9
NC
A8
A9
A10
A11
NC
BLB_A[5]
BLB_A[6]
BLB_A[7]
BLB_BLD[15]
BLB_BLD[14]
BLB_BLD[13]
BLB_BLD[12]
BLB_BLD[11]
BLB_BLD[10]
BLB_BLD[9]
BLB_BLD[8]
BLB_A[8]
BLB_A[9]
BLB_A[10]
BLB_A[11]
C1472
N.M.
C1476
N.M.
R1219
N.M.
R1220
10K
R1221
N.M.
R1222
10K
R1376
N.M.
R1377
10K
R1378
N.M.
R1379
10K
006:7D
BLB_BCE1
006:7D
BLB_BCE2
006:7E
BLB_BLWE
006:7D;010:2D
BLB_OE
A
B
C
D
1
2
3



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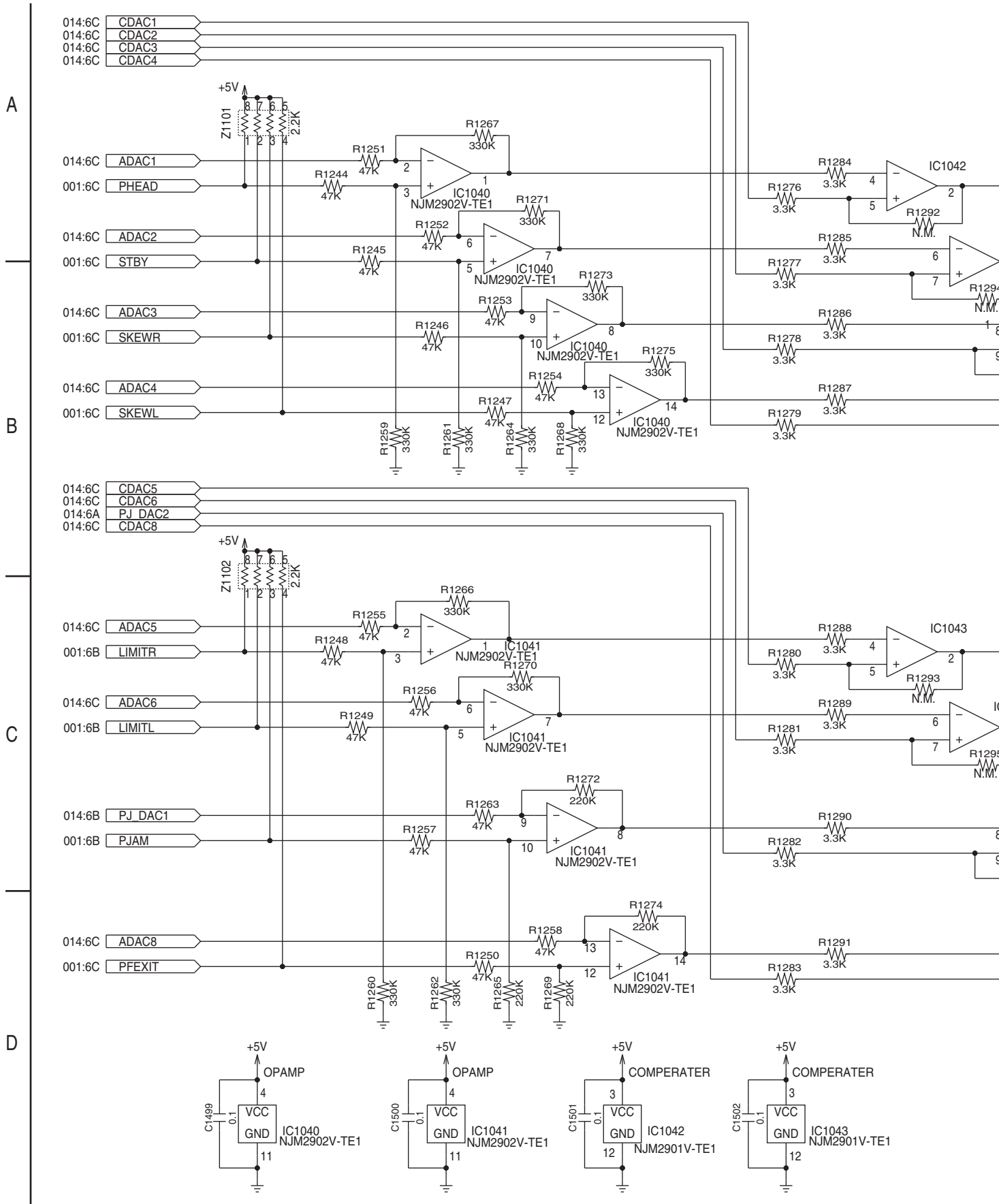
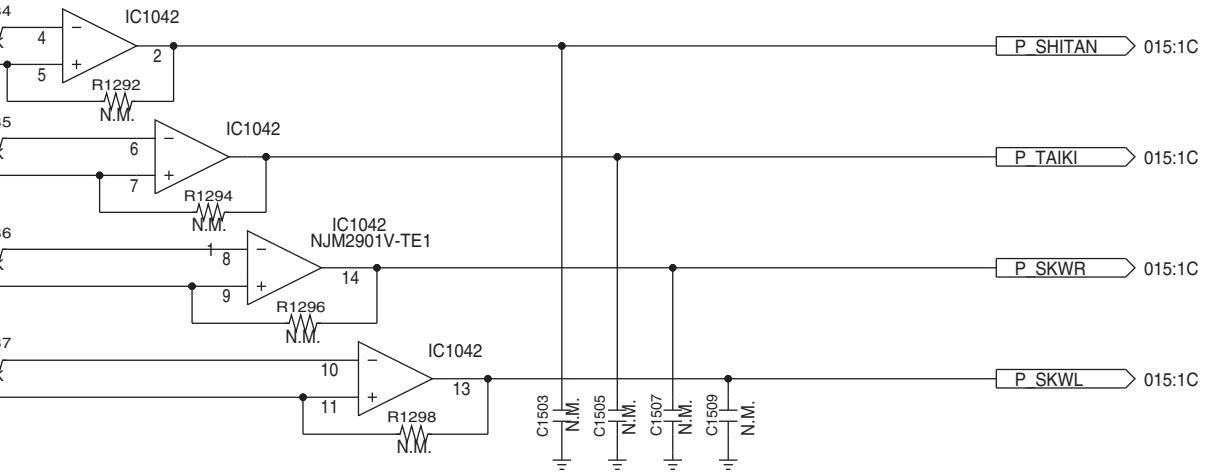
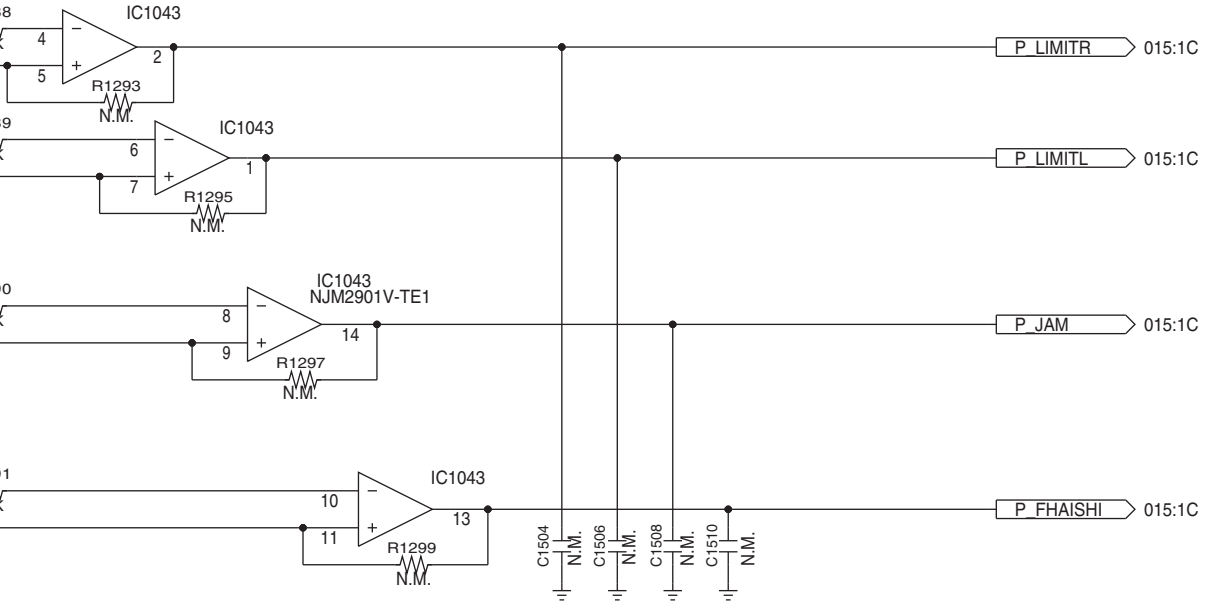

014:6C CDAC1
014:6C CDAC2
014:6C CDAC3
014:6C CDAC4
+5V
Z1101
2.2K
014:6C ADAC1
001:6C PHEAD
014:6C ADAC2
001:6C STBY
014:6C ADAC3
001:6C SKEWR
014:6C ADAC4
001:6C SKEWL
R1251 47K
R1244 47K
R1252 47K
R1245 47K
R1253 47K
R1246 47K
R1254 47K
R1247 47K
R1267 330K
R1271 330K
R1273 330K
R1275 330K
R1259 330K
R1261 330K
R1264 330K
R1268 330K
IC1040
NJM2902V-TE1
R1284 3.3K
R1276 3.3K
R1285 3.3K
R1277 3.3K
R1286 3.3K
R1278 3.3K
R1287 3.3K
R1279 3.3K
IC1042
NJM2902V-TE1
R1292 N.M.
014:6C CDAC5
014:6C CDAC6
014:6A PJ_DAC2
014:6C CDAC8
Z1102
014:6C ADAC5
001:6B LIMITR
014:6C ADAC6
001:6B LIMITL
014:6B PJ_DAC1
001:6B PJAM
014:6C ADAC8
001:6B PFEXIT
R1255 47K
R1248 47K
R1256 47K
R1249 47K
R1263 47K
R1257 47K
R1258 47K
R1250 47K
R1266 330K
R1270 330K
R1272 220K
R1274 220K
R1260 330K
R1262 330K
R1265 220K
R1269 220K
IC1041
NJM2902V-TE1
R1288 3.3K
R1280 3.3K
R1289 3.3K
R1281 3.3K
R1290 3.3K
R1282 3.3K
R1291 3.3K
R1283 3.3K
IC1043
NJM2902V-TE1
R1293 N.M.
OPAMP
C1499 0.1
VCC
GND
IC1040
NJM2902V-TE1
OPAMP
C1500 0.1
IC1041
NJM2902V-TE1
COMPERATER
C1501 0.1
IC1042
NJM2901V-TE1
COMPERATER
C1502 0.1
IC1043
NJM2901V-TE1





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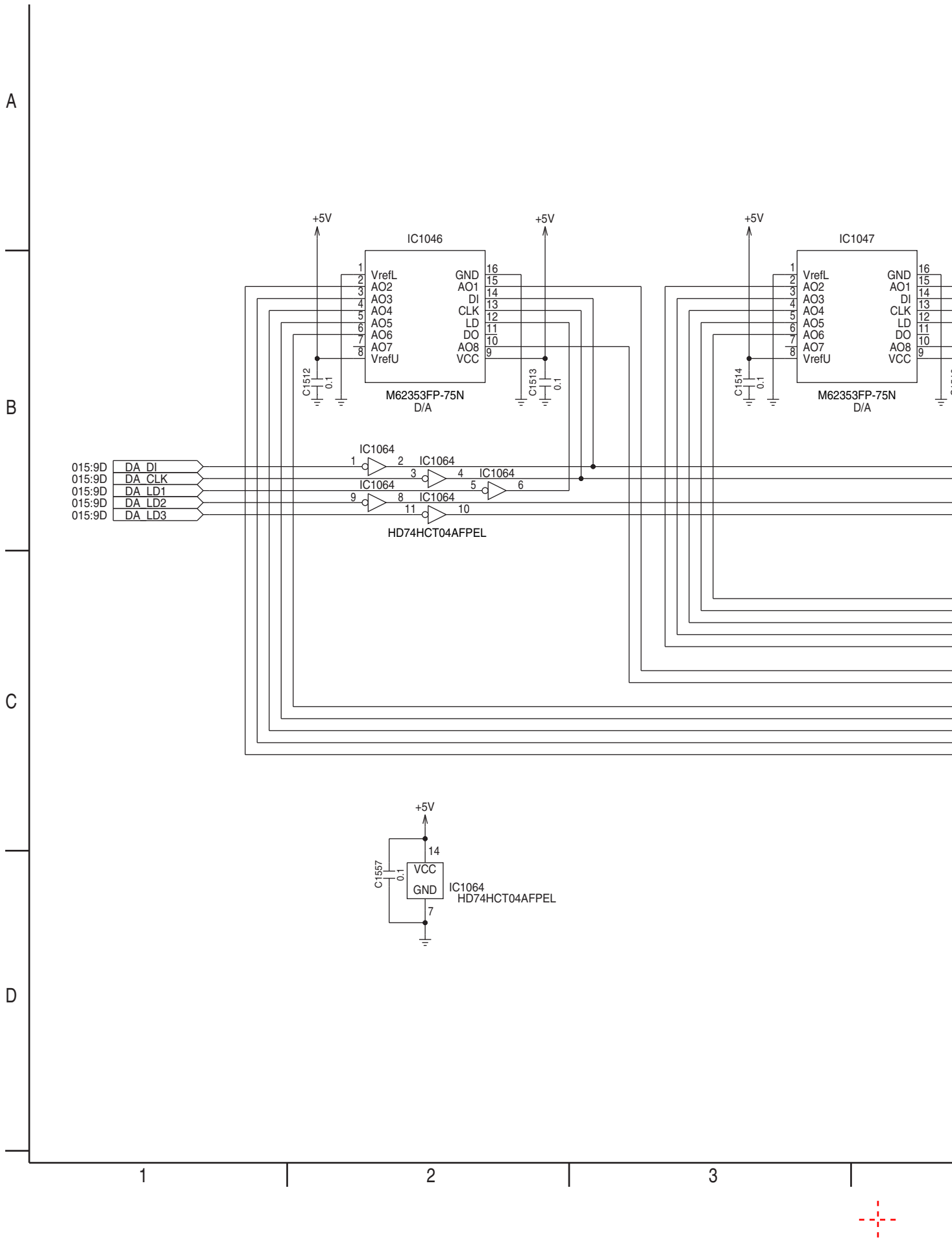
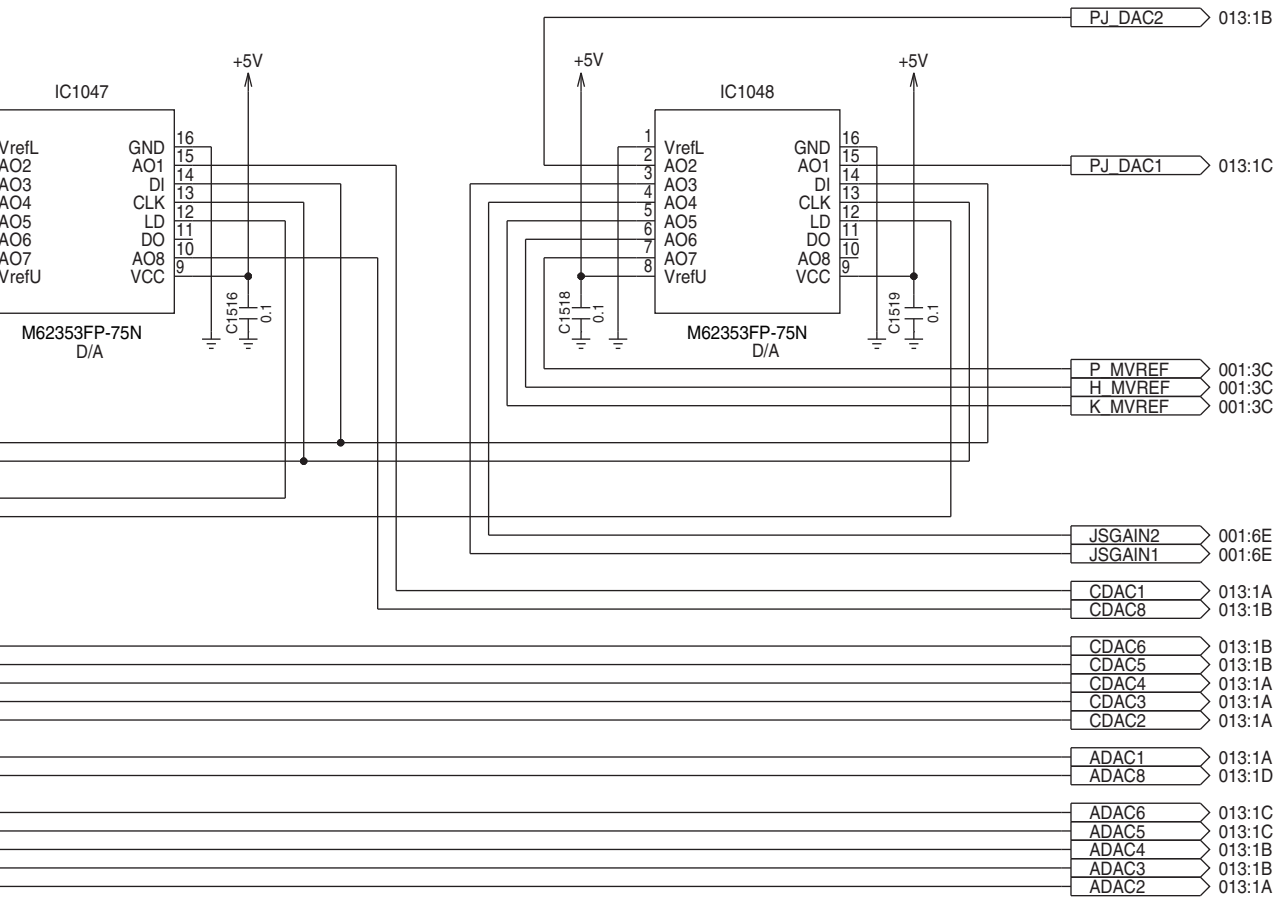
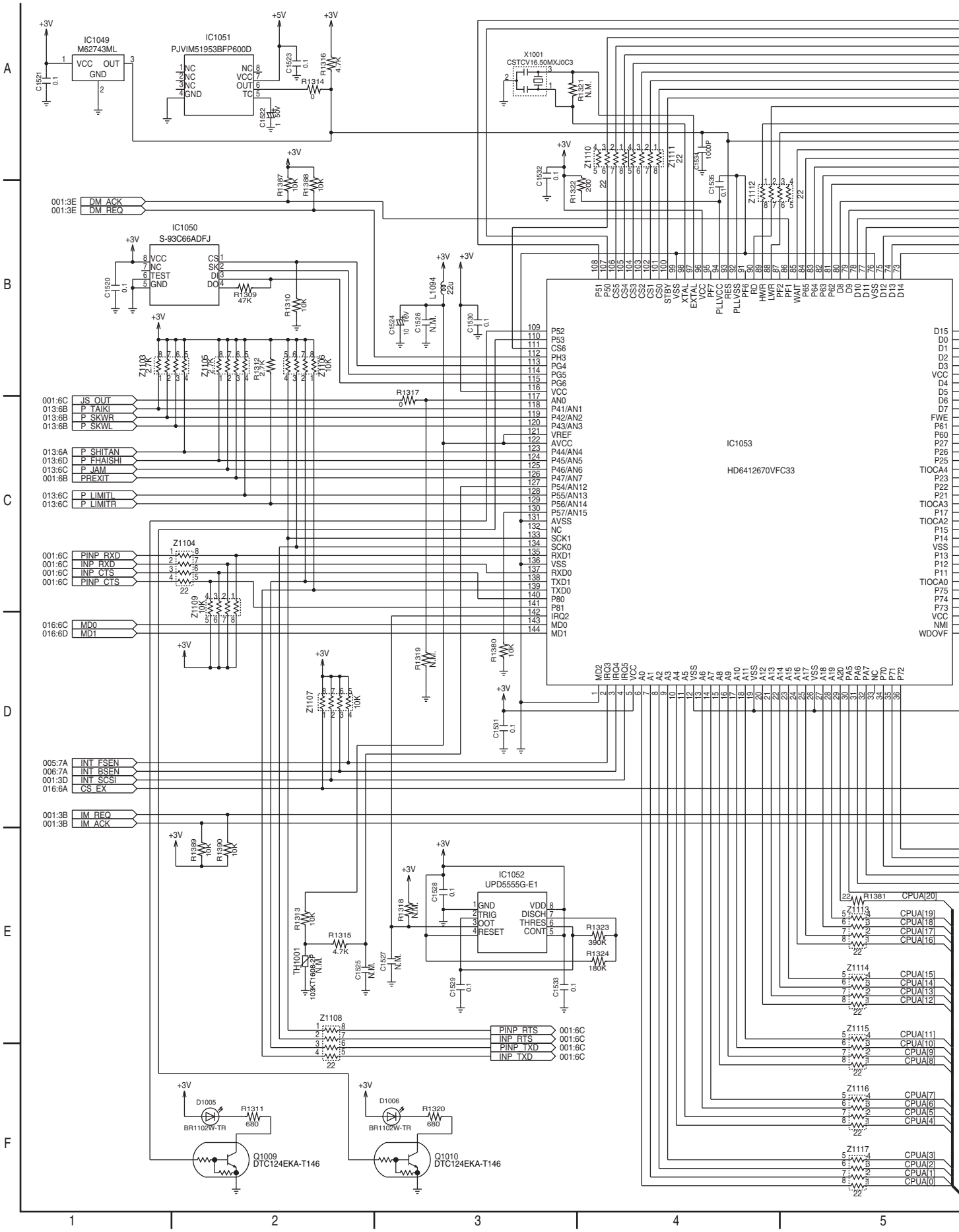
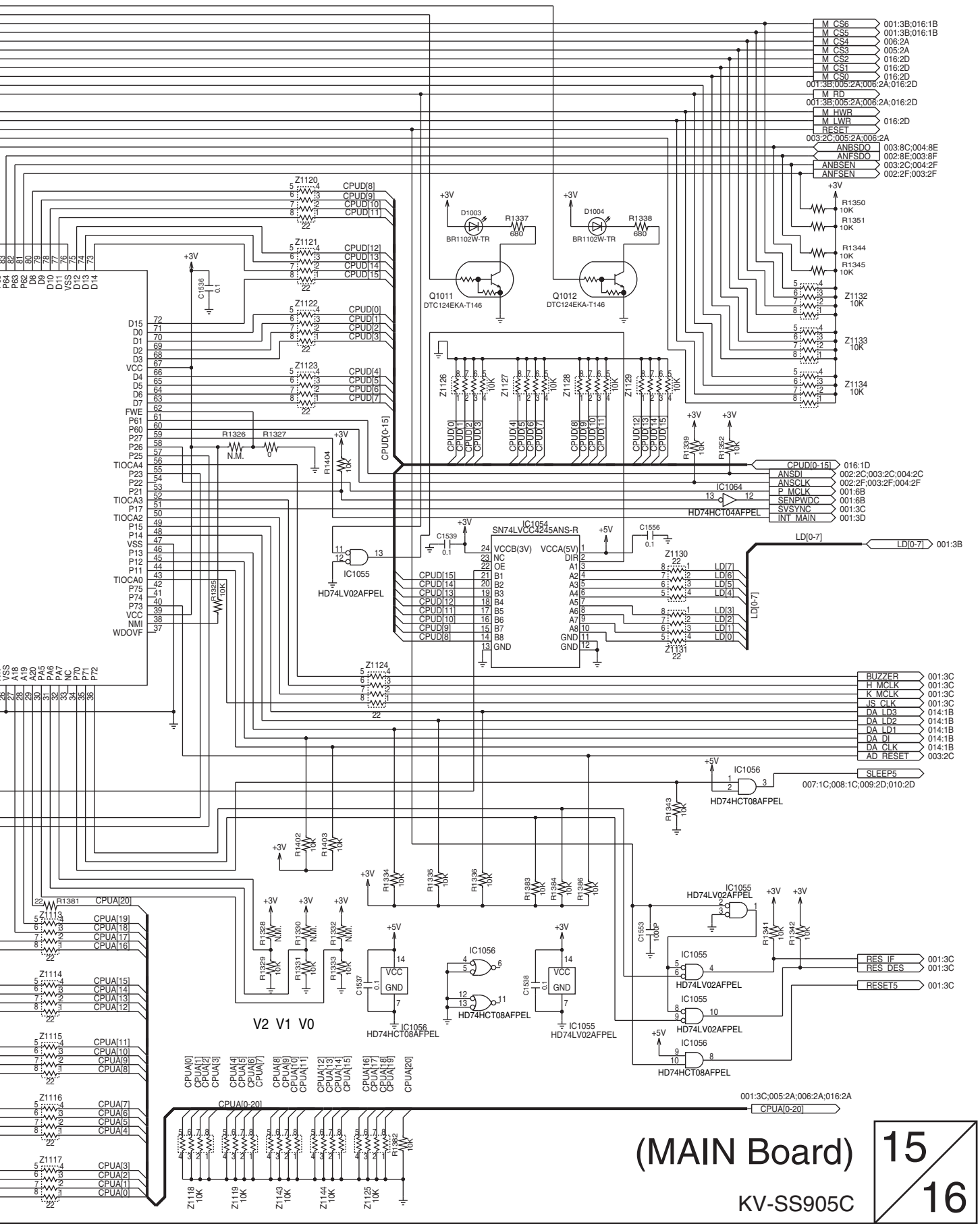
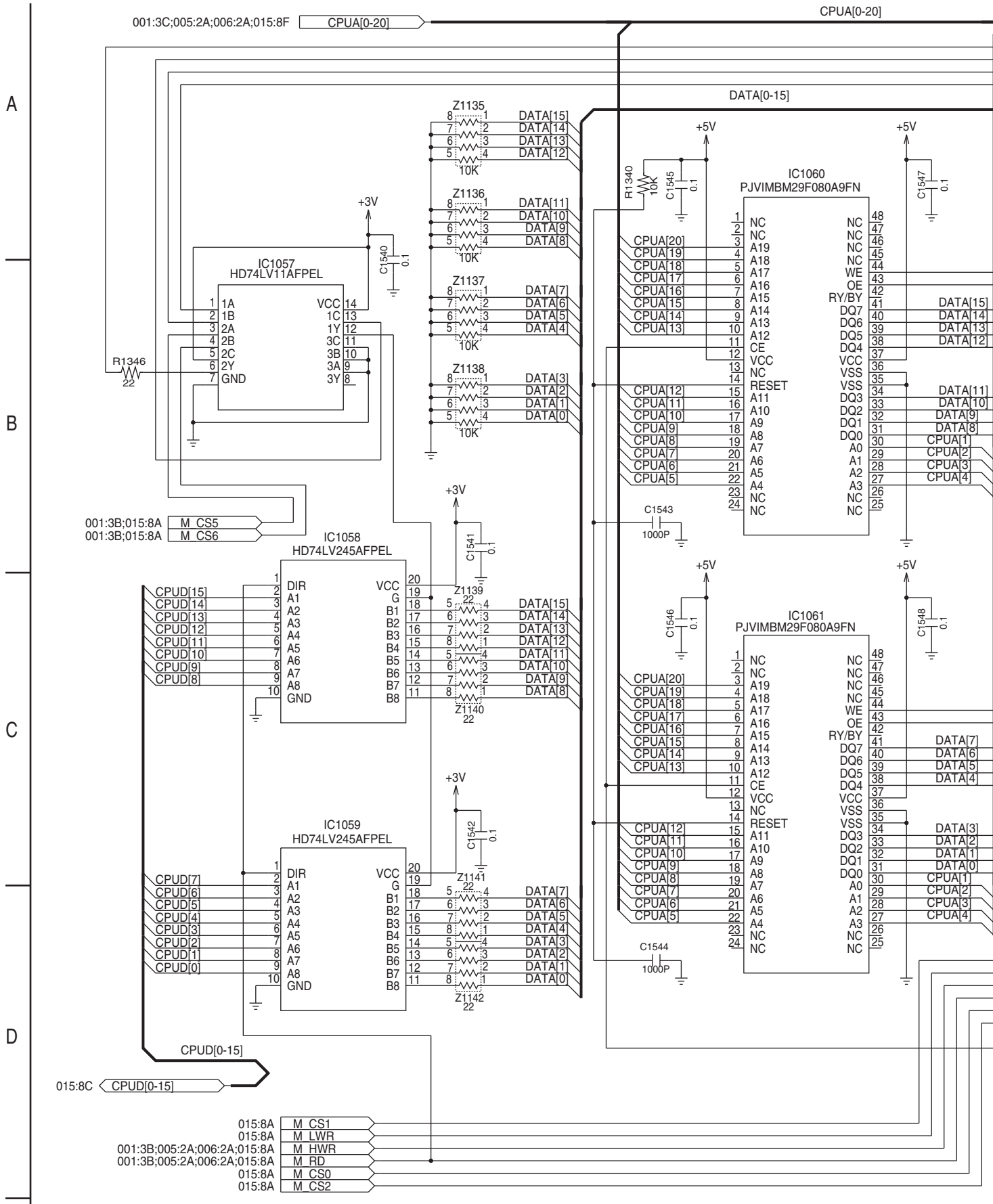
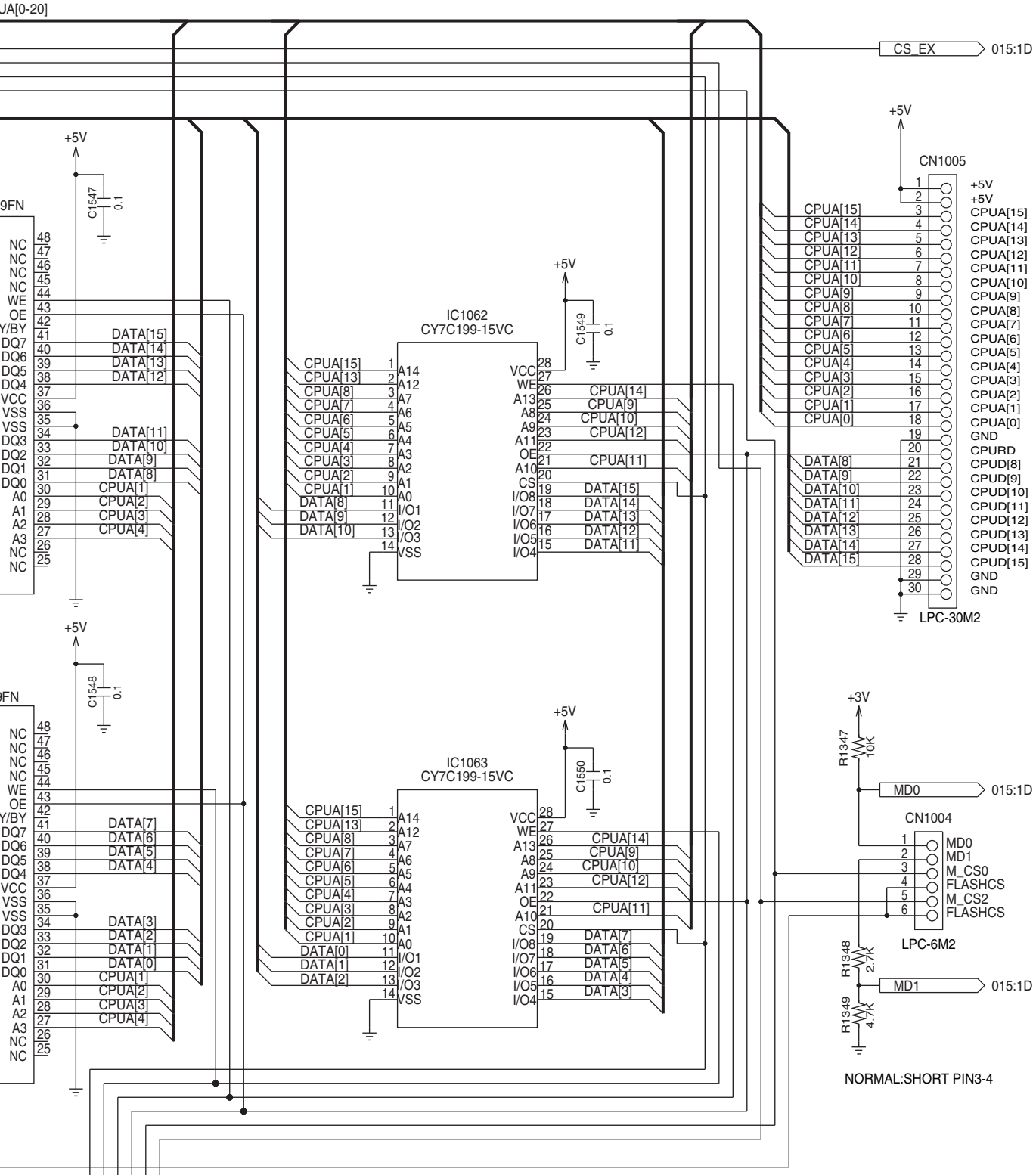

A
B
C
D
1
2
3
+5V
IC1046
VrefL
AO2
AO3
AO4
AO5
AO6
AO7
VrefU
GND
AO1
DI
CLK
LD
DO
AO8
VCC
M62353FP-75N
D/A
C1512
C1513
0.1
IC1047
C1514
015:9D DA_DI
015:9D DA_CLK
015:9D DA_LD1
015:9D DA_LD2
015:9D DA_LD3
IC1064
HD74HCT04AFPEL
C1557


IC1047
+5V
VrefL
AO2
AO3
AO4
AO5
AO6
AO7
VrefU
GND
AO1
DI
CLK
LD
DO
AO8
VCC
M62353FP-75N
D/A
C1516
0.1
IC1048
C1518
C1519
PJ_DAC2
013:1B
PJ_DAC1
013:1C
P_MVREF
H_MVREF
K_MVREF
001:3C
JSGAIN2
JSGAIN1
001:6E
CDAC1
CDAC8
013:1A
013:1B
CDAC6
CDAC5
CDAC4
CDAC3
CDAC2
ADAC1
ADAC8
013:1D
ADAC6
ADAC5
ADAC4
ADAC3
ADAC2


IC1049
M62743ML
VCC OUT
GND
IC1051
PJVIM51953BFP600D
NC NC NC GND
NC VCC OUT TC
IC1050
S-93C66ADFJ
VCC NC TEST GND
CS SK DI DO
X1001
CSTCV16.50MXJ0C3
IC1053
HD6412670VFC33
IC1052
UPD5555G-E1
GND TRIG OUT RESET
VDD DISCH THRES CONT
001:3E DM_ACK
001:3E DM_REQ
001:6C JS_OUT
013:6B P_TAIKI
013:6B P_SKWR
013:6B P_SKWL
013:6A P_SHITAN
013:6D P_FHAISHI
013:6C P_JAM
001:6B PREXIT
013:6C P_LIMITL
013:6C P_LIMITR
001:6C PINP_RXD
001:6C INP_RXD
001:6C INP_CTS
001:6C PINP_CTS
016:6C MD0
016:6D MD1
005:7A INT_FSEN
006:7A INT_BSEN
001:3D INT_SCSI
016:6A CS_EX
001:3B IM_REQ
001:3B IM_ACK
PINP_RTS 001:6C
INP_RTS 001:6C
PINP_TXD 001:6C
INP_TXD 001:6C
D1005 BR1102W-TR
D1006 BR1102W-TR
Q1009 DTC124EKA-T146
Q1010 DTC124EKA-T146
CPUA[20]
CPUA[19]
CPUA[18]
CPUA[17]
CPUA[16]
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
CPUA[4]
CPUA[3]
CPUA[2]
CPUA[1]
CPUA[0]


M_CS6 001:3B;016:1B
M_CS5 001:3B;016:1B
M_CS4 006:2A
M_CS3 005:2A
M_CS2 016:2D
M_CS1 016:2D
M_CS0 016:2D
001:3B;005:2A;006:2A;016:2D
M_RD
001:3B;005:2A;006:2A;016:2D
M_HWR
M_LWR 016:2D
RESET
003:2C;005:2A;006:2A
ANBSDO 003:8C;004:8E
ANFSDO 002:8E;003:8F
ANBSEN 003:2C;004:2F
ANFSEN 002:2F;003:2F
CPUD[0-15] 016:1D
ANSDI 002:2C;003:2C;004:2C
ANSCLK 002:2F;003:2F;004:2F
P_MCLK 001:6B
SENPWDC 001:6B
SVSYNC 001:3C
INT_MAIN 001:3D
LD[0-7] 001:3B
BUZZER 001:3C
H_MCLK 001:3C
K_MCLK 001:3C
JS_CLK 001:3C
DA_LD3 014:1B
DA_LD2 014:1B
DA_LD1 014:1B
DA_DI 014:1B
DA_CLK 014:1B
AD_RESET 003:2C
SLEEP5 007:1C;008:1C;009:2D;010:2D
RES_IF 001:3C
RES_DES 001:3C
RESET5 001:3C
CPUA[0-20] 001:3C;005:2A;006:2A;016:2A
IC1064 HD74HCT04AFPEL
IC1054 SN74LVCC4245ANS-R
IC1055 HD74LV02AFPEL
IC1056 HD74HCT08AFPEL
Q1011 DTC124EKA-T146
Q1012 DTC124EKA-T146
D1003 BR1102W-TR
D1004 BR1102W-TR
V2 V1 V0


001:3C;005:2A;006:2A;015:8F
CPUA[0-20]
CPUA[0-20]
DATA[0-15]
Z1135
DATA[15]
DATA[14]
DATA[13]
DATA[12]
10K
Z1136
DATA[11]
DATA[10]
DATA[9]
DATA[8]
10K
Z1137
DATA[7]
DATA[6]
DATA[5]
DATA[4]
10K
Z1138
DATA[3]
DATA[2]
DATA[1]
DATA[0]
10K
+3V
C1540
0.1
IC1057
HD74LV11AFPEL
1A
1B
2A
2B
2C
2Y
GND
VCC
1C
1Y
3C
3B
3A
3Y
R1346
22
001:3B;015:8A
M_CS5
001:3B;015:8A
M_CS6
+3V
C1541
0.1
IC1058
HD74LV245AFPEL
DIR
A1
A2
A3
A4
A5
A6
A7
A8
GND
VCC
G
B1
B2
B3
B4
B5
B6
B7
B8
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
Z1139
22
DATA[15]
DATA[14]
DATA[13]
DATA[12]
DATA[11]
DATA[10]
DATA[9]
DATA[8]
Z1140
22
+3V
C1542
0.1
IC1059
HD74LV245AFPEL
CPUD[7]
CPUD[6]
CPUD[5]
CPUD[4]
CPUD[3]
CPUD[2]
CPUD[1]
CPUD[0]
Z1141
22
DATA[7]
DATA[6]
DATA[5]
DATA[4]
DATA[3]
DATA[2]
DATA[1]
DATA[0]
Z1142
22
CPUD[0-15]
015:8C
CPUD[0-15]
+5V
R1340
10K
C1545
0.1
IC1060
PJVIMBM29F080A9FN
NC
A19
A18
A17
A16
A15
A14
A13
A12
CE
VCC
NC
RESET
A11
A10
A9
A8
A7
A6
A5
A4
WE
OE
RY/BY
DQ7
DQ6
DQ5
DQ4
VSS
DQ3
DQ2
DQ1
DQ0
A0
A1
A2
A3
CPUA[20]
CPUA[19]
CPUA[18]
CPUA[17]
CPUA[16]
CPUA[15]
CPUA[14]
CPUA[13]
CPUA[12]
CPUA[11]
CPUA[10]
CPUA[9]
CPUA[8]
CPUA[7]
CPUA[6]
CPUA[5]
DATA[15]
DATA[14]
DATA[13]
DATA[12]
DATA[11]
DATA[10]
DATA[9]
DATA[8]
CPUA[1]
CPUA[2]
CPUA[3]
CPUA[4]
C1543
1000P
+5V
C1547
0.1
+5V
C1546
0.1
IC1061
PJVIMBM29F080A9FN
DATA[7]
DATA[6]
DATA[5]
DATA[4]
DATA[3]
DATA[2]
DATA[1]
DATA[0]
C1544
1000P
+5V
C1548
0.1
015:8A
M_CS1
015:8A
M_LWR
001:3B;005:2A;006:2A;015:8A
M_HWR
001:3B;005:2A;006:2A;015:8A
M_RD
015:8A
M_CS0
015:8A
M_CS2
A
B
C
D
1
2
3



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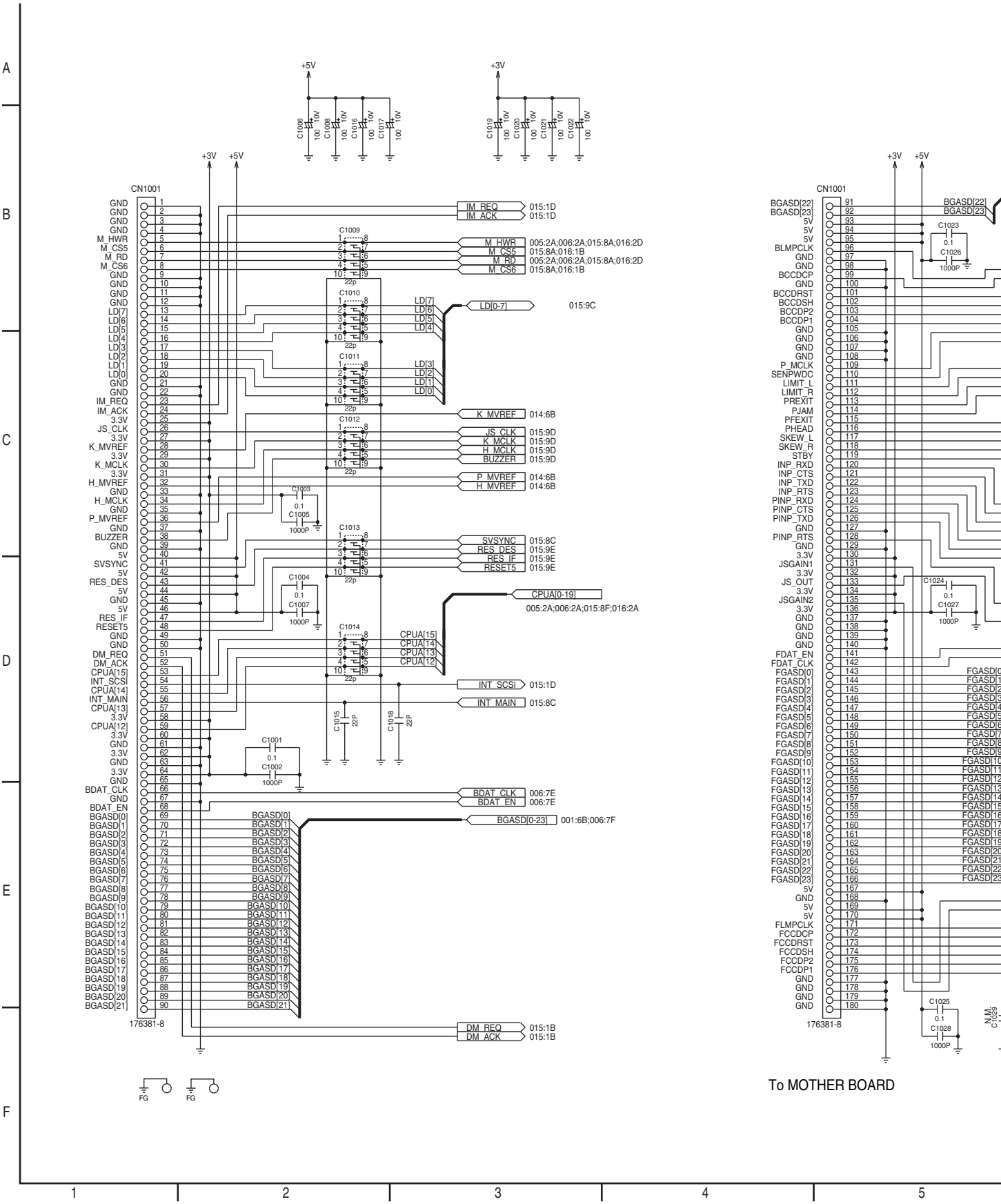
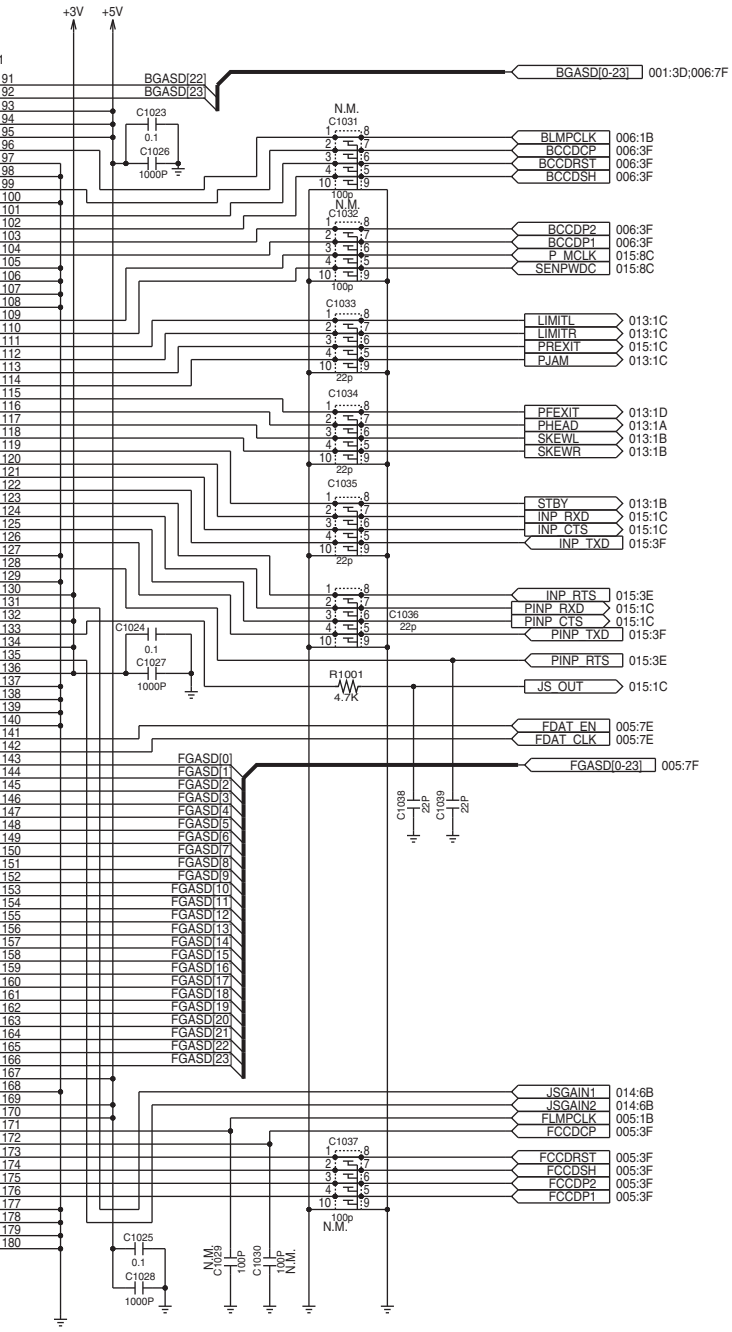
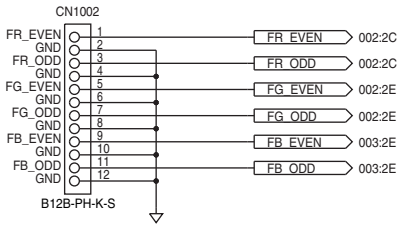
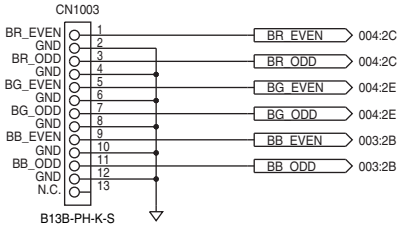

CN1001
176381-8
IM_REQ
IM_ACK
M_HWR
M_CS5
M_RD
M_CS6
LD[0-7]
K_MVREF
JS_CLK
K_MCLK
H_MCLK
BUZZER
P_MVREF
H_MVREF
SVSYNC
RES_DES
RES_IF
RESET5
CPUA[0-19]
INT_SCSI
INT_MAIN
BDAT_CLK
BDAT_EN
BGASD[0-23]
DM_REQ
DM_ACK
To MOTHER BOARD



BOARD



From CCD BOARD(FRONT)



From CCD BOARD(BACK)

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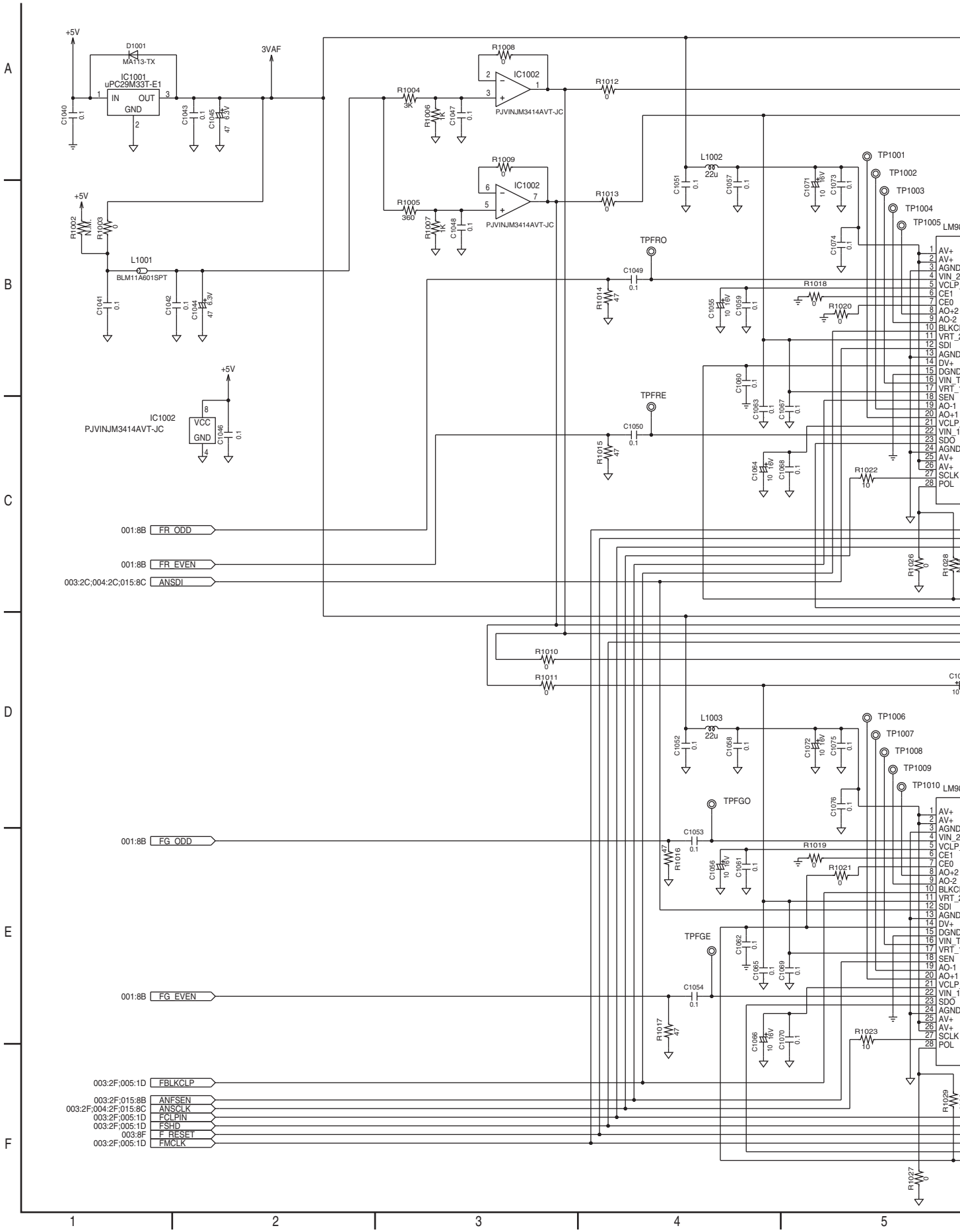
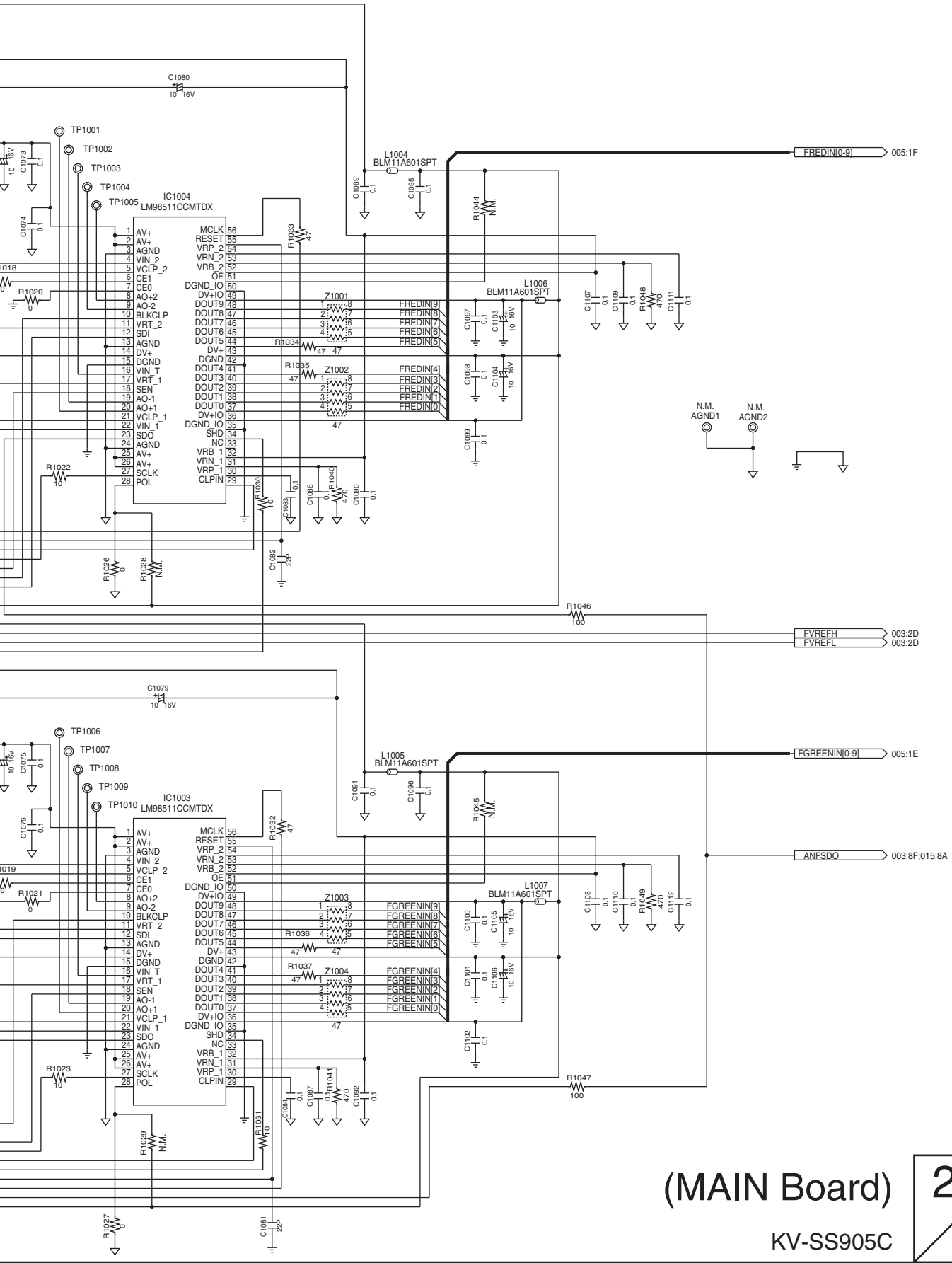
5 | 6 | 7 | 8


+5V
D1001
MA113-TX
IC1001
uPC29M33T-E1
IN
OUT
GND
3VAF
C1040 0.1
C1043 0.1
C1045 47 6.3V
R1004 3K
R1006 1K
C1047 0.1
R1008 0
IC1002
PJVINJM3414AVT-JC
R1012 0
R1009 0
R1005 360
R1007 1K
C1048 0.1
R1013 0
L1002 22u
C1051 0.1
C1057 0.1
C1071 10 16V
C1073 0.1
TP1001
TP1002
TP1003
TP1004
TP1005
C1074 0.1
R1002 N.M.
R1003 0
L1001
BLM11A601SPT
C1041 0.1
C1042 0.1
C1044 47 6.3V
TPFRO
C1049 0.1
R1014 47
R1018 0
R1020 0
C1055 10 16V
C1059 0.1
C1060 0.1
C1063 0.1
C1067 0.1
TPFRE
C1050 0.1
R1015 47
C1064 10 16V
C1068 0.1
R1022 10
C1046 0.1
001:8B FR_ODD
001:8B FR_EVEN
003:2C;004:2C;015:8C ANSDI
R1010 0
R1011 0
L1003 22u
C1052 0.1
C1058 0.1
C1072 10 16V
C1075 0.1
TP1006
TP1007
TP1008
TP1009
TP1010
C1076 0.1
TPFGO
C1053 0.1
R1016 47
R1019 0
R1021 0
C1056 10 16V
C1061 0.1
001:8B FG_ODD
TPFGE
C1062 0.1
C1065 0.1
C1069 0.1
C1054 0.1
R1017 47
C1066 10 16V
C1070 0.1
R1023 10
001:8B FG_EVEN
003:2F;005:1D FBLKCLP
003:2F;015:8B ANFSEN
003:2F;004:2F;015:8C ANSCLK
003:2F;005:1D FCLPIN
003:2F;005:1D FSHD
003:8F F_RESET
003:2F;005:1D FMCLK
R1026 0
R1027 0
R1028
R1029
AV+
AGND
VIN_2
VCLP
CE1
CE0
AO+2
AO-2
BLKC
VRT_
SDI
DV+
DGND
VIN_T
SEN
AO-1
AO+1
SDO
SCLK
POL
A
B
C
D
E
F
1
2
3
4
5



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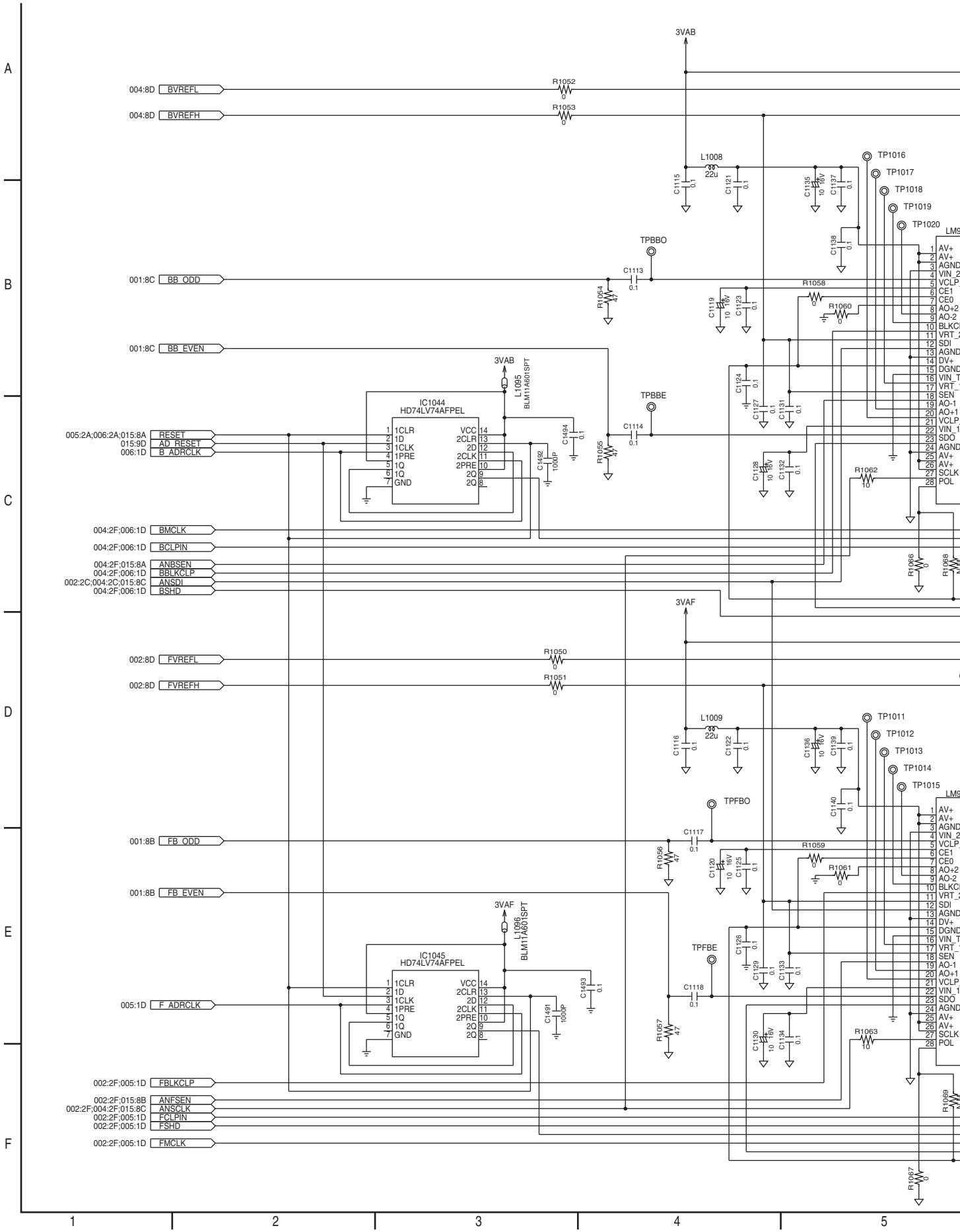
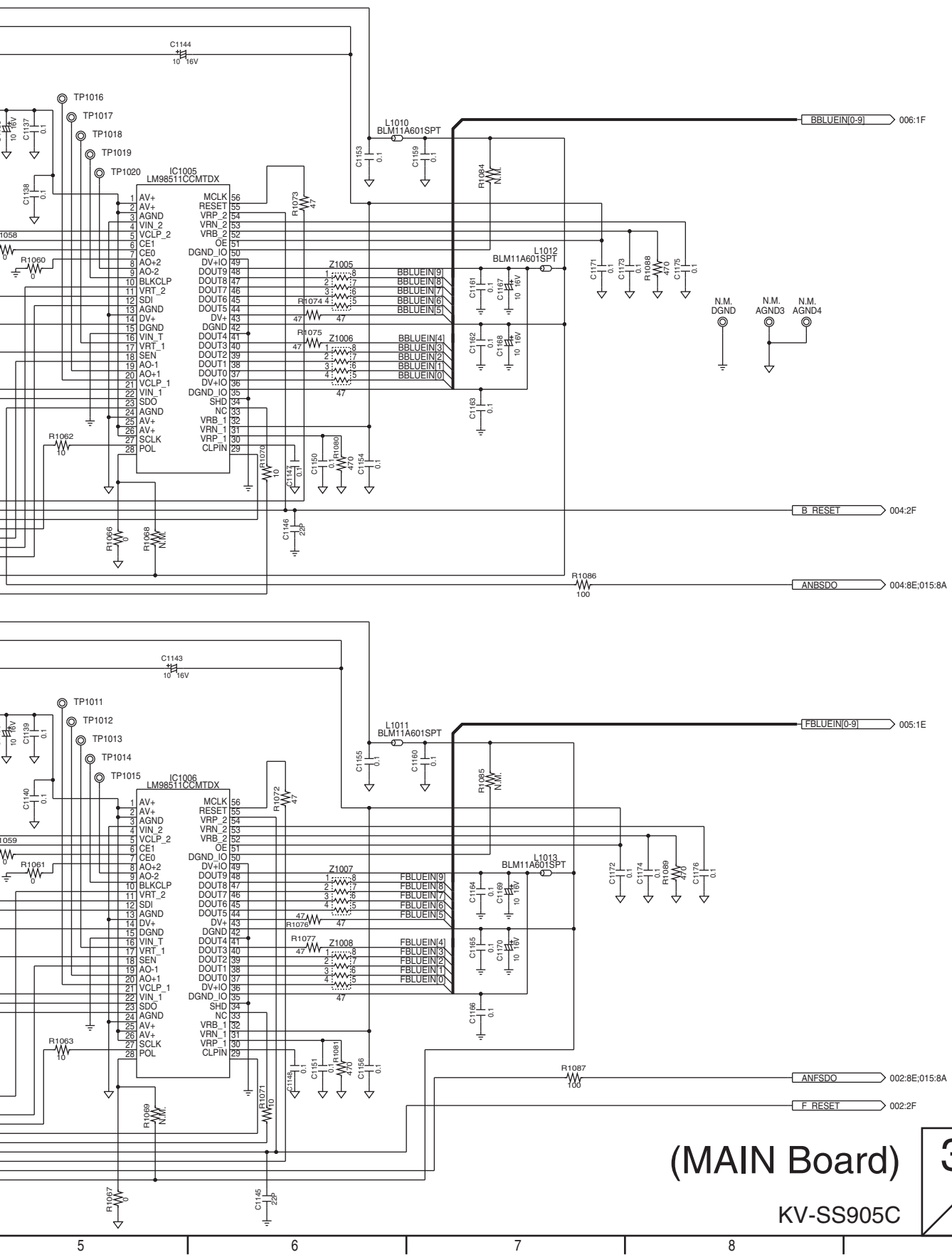
5 6 7 8


3VAB
004:8D BVREFL
004:8D BVREFH
R1052 0
R1053 0
L1008 22u
TP1016
TP1017
TP1018
TP1019
TP1020
TPBBO
001:8C BB_ODD
C1113 0.1
R1054 47
R1058 0
R1060 0
001:8C BB_EVEN
3VAB
L1095 BLM11A601SPT
IC1044 HD74LV74AFPEL
TPBBE
005:2A;006:2A;015:8A RESET
015:9D AD_RESET
006:1D B_ADRCLK
C1114 0.1
R1055 47
C1494 0.1
C1492 1000P
R1062 10
004:2F;006:1D BMCLK
004:2F;006:1D BCLPIN
004:2F;015:8A ANBSEN
004:2F;006:1D BBLKCLP
002:2C;004:2C;015:8C ANSDI
004:2F;006:1D BSHD
R1066 0
R1068
3VAF
002:8D FVREFL
002:8D FVREFH
R1050 0
R1051 0
L1009 22u
TP1011
TP1012
TP1013
TP1014
TP1015
TPFBO
001:8B FB_ODD
C1117 0.1
R1056 47
R1059 0
R1061 0
001:8B FB_EVEN
3VAF
L1096 BLM11A601SPT
IC1045 HD74LV74AFPEL
TPFBE
005:1D F_ADRCLK
C1118 0.1
R1057 47
C1493 0.1
C1491 1000P
R1063 10
002:2F;005:1D FBLKCLP
002:2F;015:8B ANFSEN
002:2F;004:2F;015:8C ANSCLK
002:2F;005:1D FCLPIN
002:2F;005:1D FSHD
002:2F;005:1D FMCLK
R1067 0
R1069
1CLR 1D 1CLK 1PRE 1Q 1Q GND
VCC 2CLR 2D 2CLK 2PRE 2Q 2Q
AV+ AV+ AGND VIN_2 VCLP CE1 CE0 AO+2 AO-2 BLKC VRT SDI AGND DV+ DGND VIN_1 VRT SEN AO-1 AO+1 VCLP VIN_1 SDO AGND AV+ AV+ SCLK POL
A
B
C
D
E
F
1
2
3
4
5



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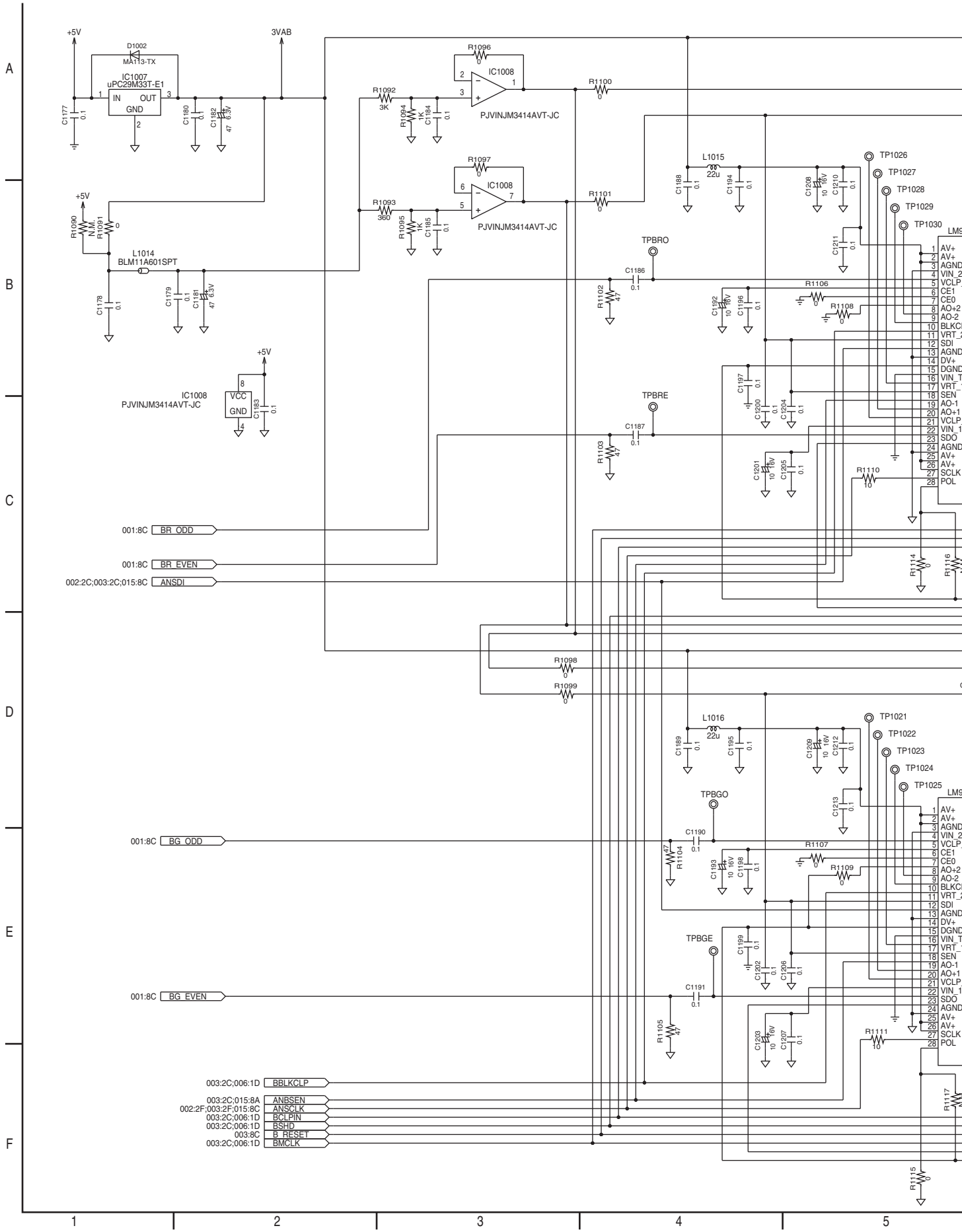
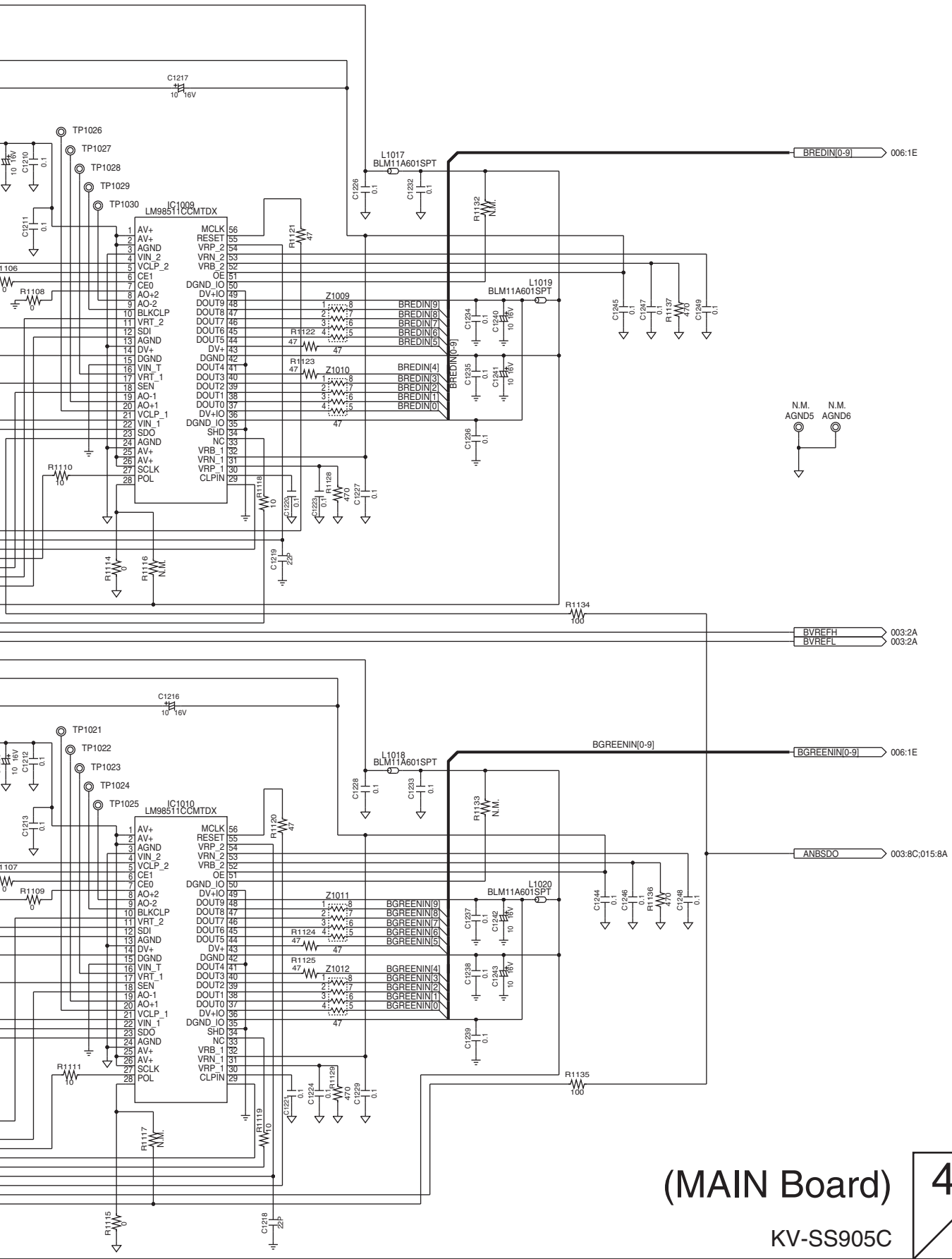

+5V
3VAB
D1002
MA113-TX
IC1007
uPC29M33T-E1
IN
OUT
GND
C1177 0.1
C1180 0.1
C1182 47 6.3V
R1096 0
IC1008
R1092 3K
R1094 1K
C1184 0.1
PJVINJM3414AVT-JC
R1100 0
R1097 0
R1093 360
R1095 1K
C1185 0.1
R1101 0
R1090 N.M.
R1091 0
L1014
BLM11A601SPT
C1178 0.1
C1179 0.1
C1181 47 6.3V
L1015 22u
C1188 0.1
C1194 0.1
C1208 10 16V
C1210 0.1
C1211 0.1
TP1026
TP1027
TP1028
TP1029
TP1030
TPBRO
C1186 0.1
R1102 47
R1106 0
R1108 0
C1192 10 16V
C1196 0.1
C1197 0.1
C1200 0.1
C1204 0.1
TPBRE
C1187 0.1
R1103 47
C1201 10 16V
C1205 0.1
R1110 10
R1114 0
R1116
001:8C BR_ODD
001:8C BR_EVEN
002:2C;003:2C;015:8C ANSDI
R1098 0
R1099 0
L1016 22u
C1189 0.1
C1195 0.1
C1209 10 16V
C1212 0.1
C1213 0.1
TP1021
TP1022
TP1023
TP1024
TP1025
TPBGO
C1190 0.1
R1104 47
C1193 10 16V
C1198 0.1
R1107 0
R1109 0
001:8C BG_ODD
TPBGE
C1191 0.1
R1105 47
C1199 0.1
C1202 0.1
C1206 0.1
C1203 10 16V
C1207 0.1
R1111 10
001:8C BG_EVEN
003:2C;006:1D BBLKCLP
003:2C;015:8A ANBSEN
002:2F;003:2F;015:8C ANSCLK
003:2C;006:1D BCLPIN
003:2C;006:1D BSHD
003:8C B_RESET
003:2C;006:1D BMCLK
R1117
R1115 0
IC1008
PJVINJM3414AVT-JC
VCC
GND
C1183 0.1
AV+
AGND
VIN_2
VCLP
CE1
CE0
AO+2
AO-2
BLKC
VRT_2
SDI
AGND
DV+
DGND
VIN_T
VRT_1
SEN
AO-1
AO+1
VCLP
VIN_1
SDO
AGND
AV+
AV+
SCLK
POL
A
B
C
D
E
F
1
2
3
4
5



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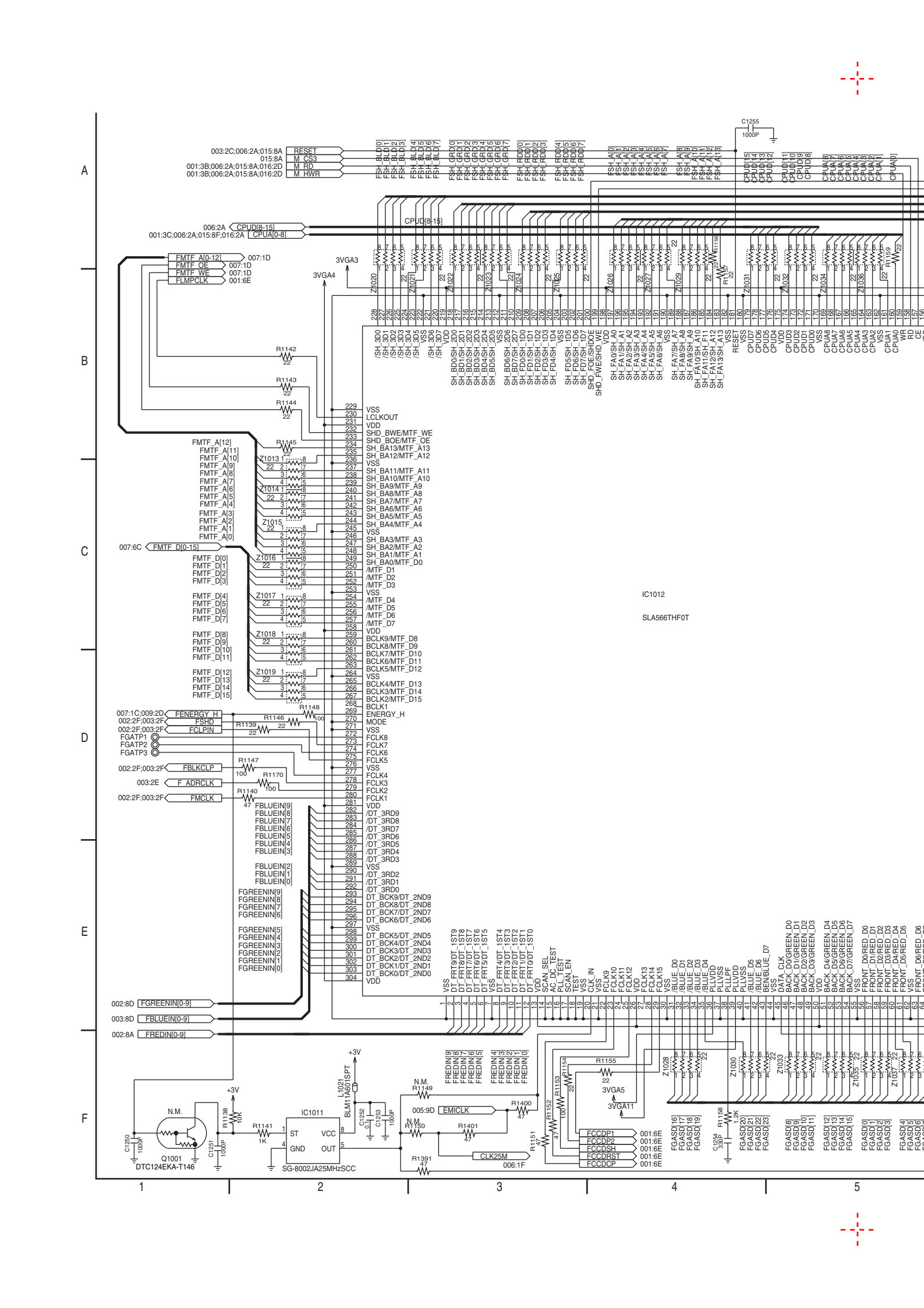
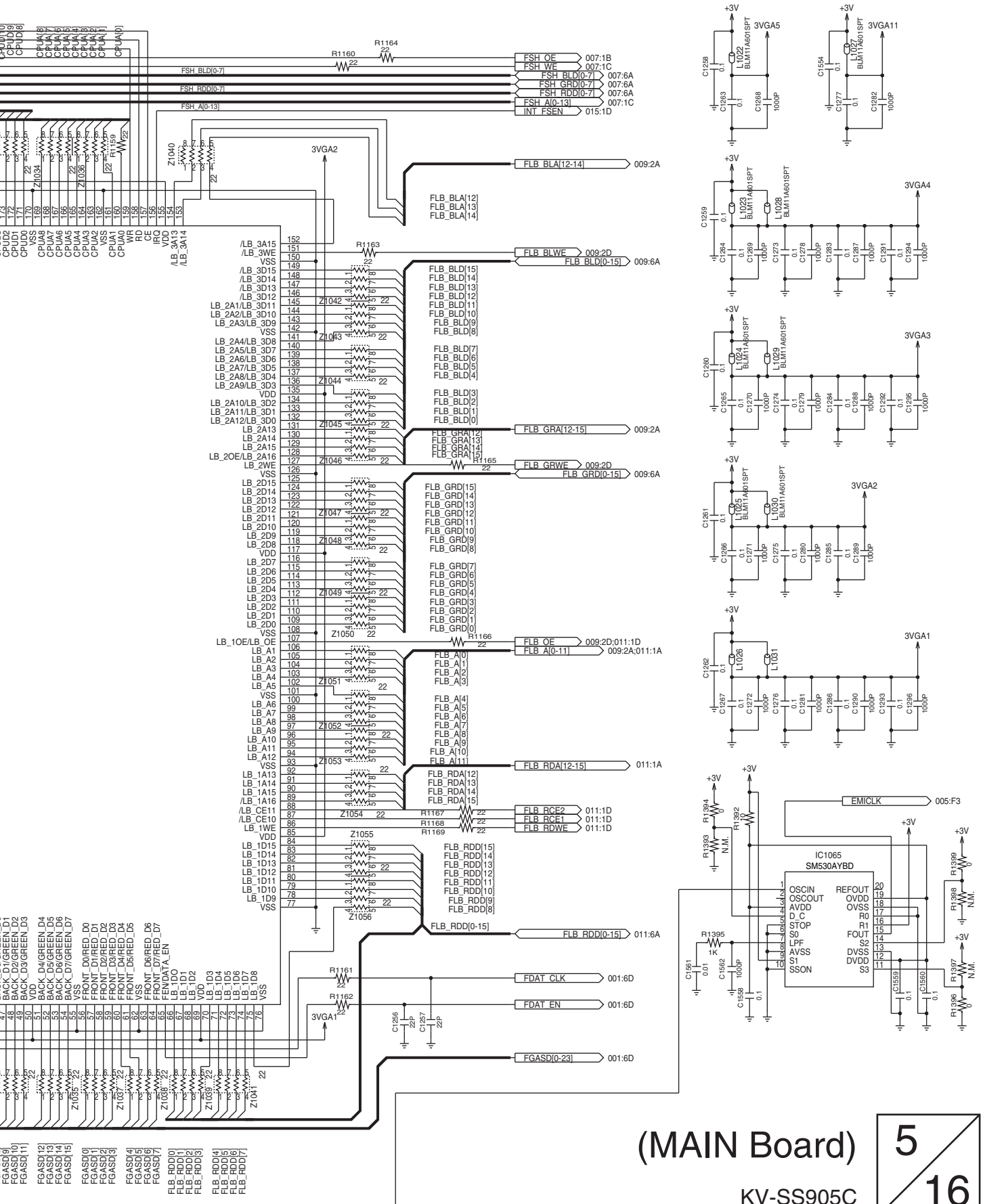

IC1012
SLA566THF0T
IC1011
SG-8002JA25MHzSCC
Q1001
DTC124EKA-T146
RESET
M_CS3
M_RD
M_HWR
CPUD[8-15]
CPUA[0-8]
FMTF_A[0-12]
FMTF_OE
FMTF_WE
FLMPCLK
FMTF_D[0-15]
FENERGY_H
FSHD
FCLPIN
FBLKCLP
F_ADRCLK
FMCLK
FGREENIN[0-9]
FBLUEIN[0-9]
FREDIN[0-9]
EMICLK
CLK25M
FCCDP1
FCCDP2
FCCDSH
FCCDRST
FCCDCP
3VGA3
3VGA4
3VGA5
3VGA11
+3V
N.M.



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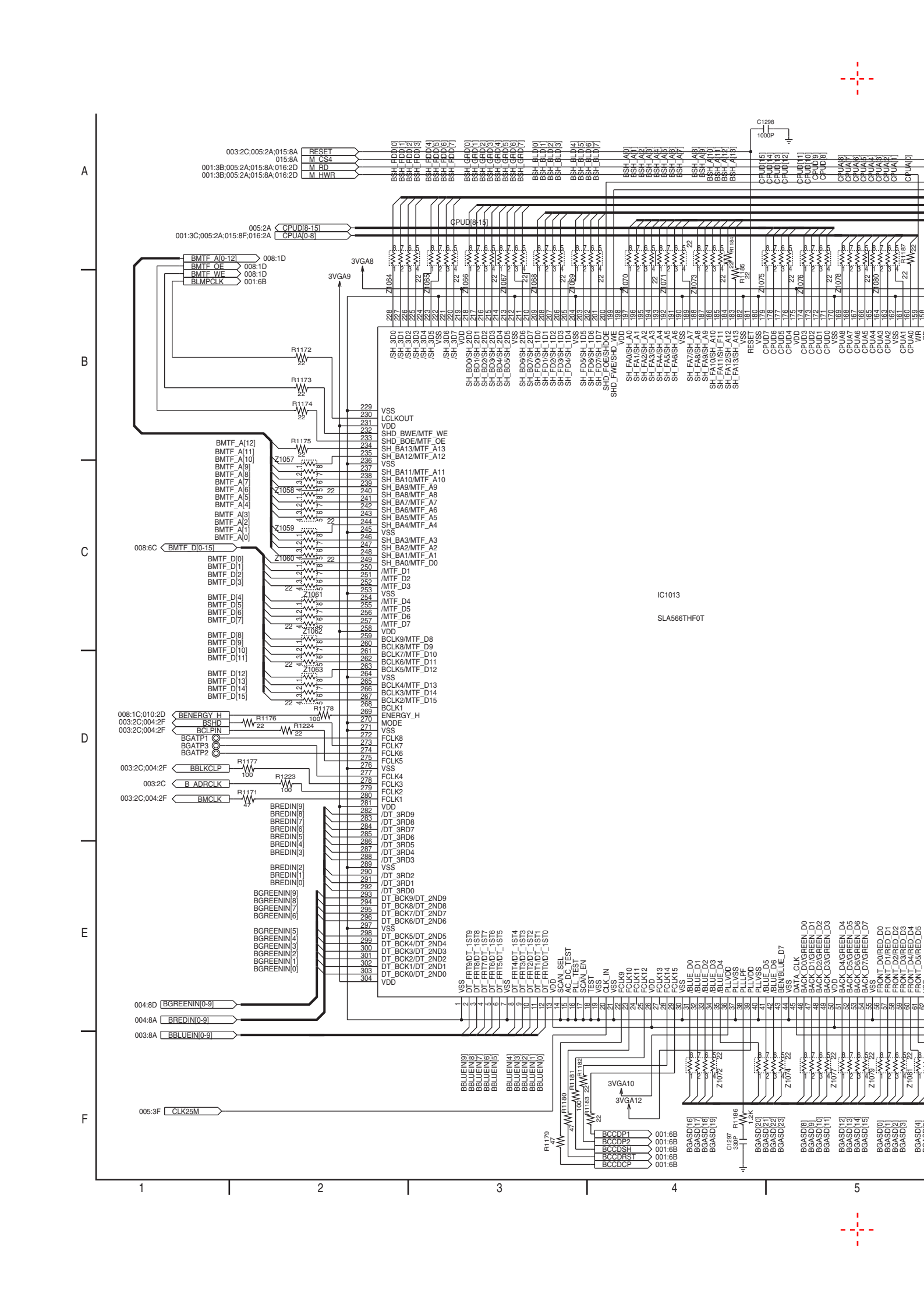
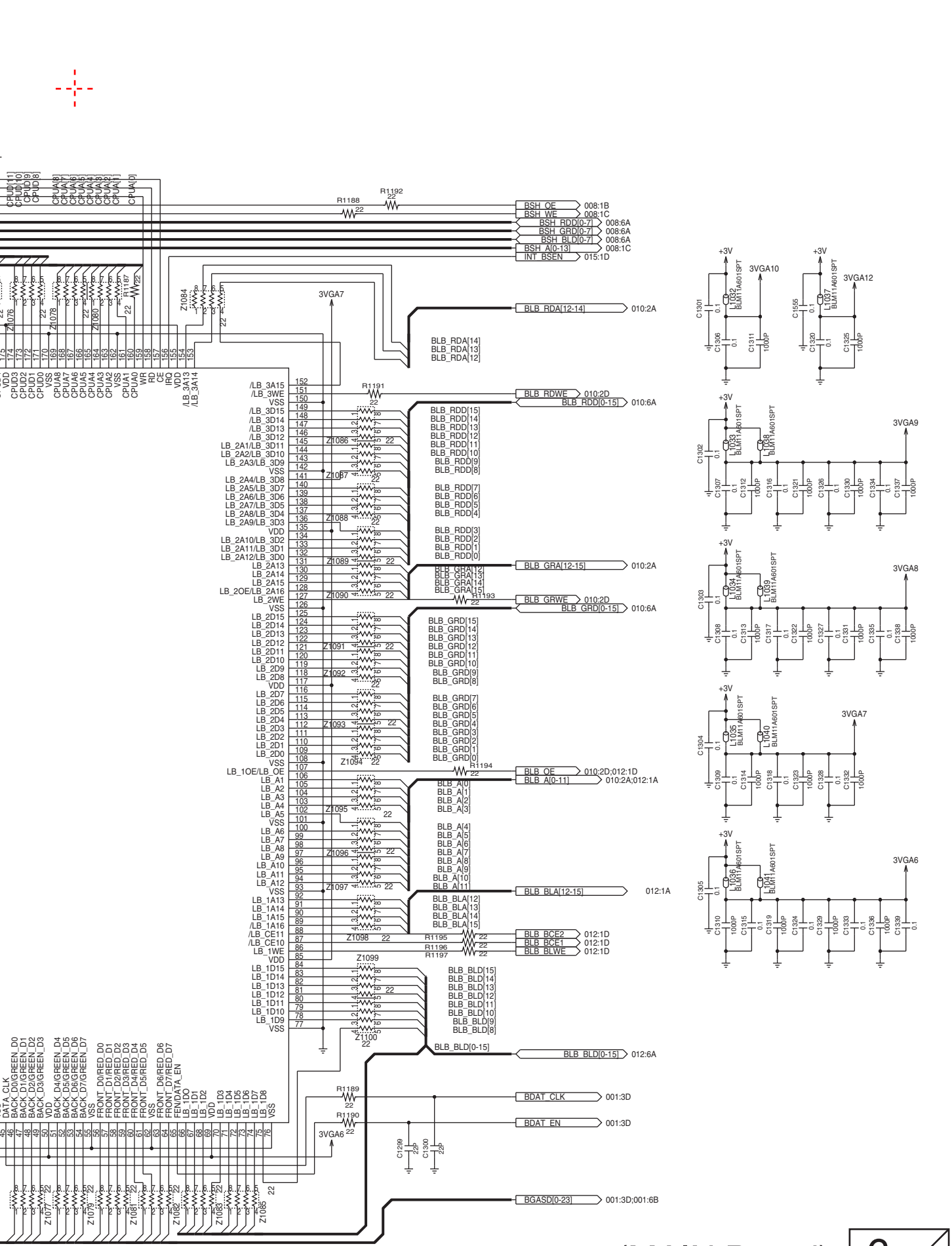

IC1013
SLA566THF0T
RESET
M_CS4
M_RD
M_HWR
CPUD[8-15]
CPUA[0-8]
BMTF_A[0-12]
BMTF_OE
BMTF_WE
BLMPCLK
3VGA8
3VGA9
BMTF_D[0-15]
BENERGY_H
BSHD
BCLPIN
BBLKCLP
B_ADRCLK
BMCLK
BGREENIN[0-9]
BREDIN[0-9]
BBLUEIN[0-9]
CLK25M
3VGA10
3VGA12
BCCDP1
BCCDP2
BCCDSH
BCCDRST
BCCDCP



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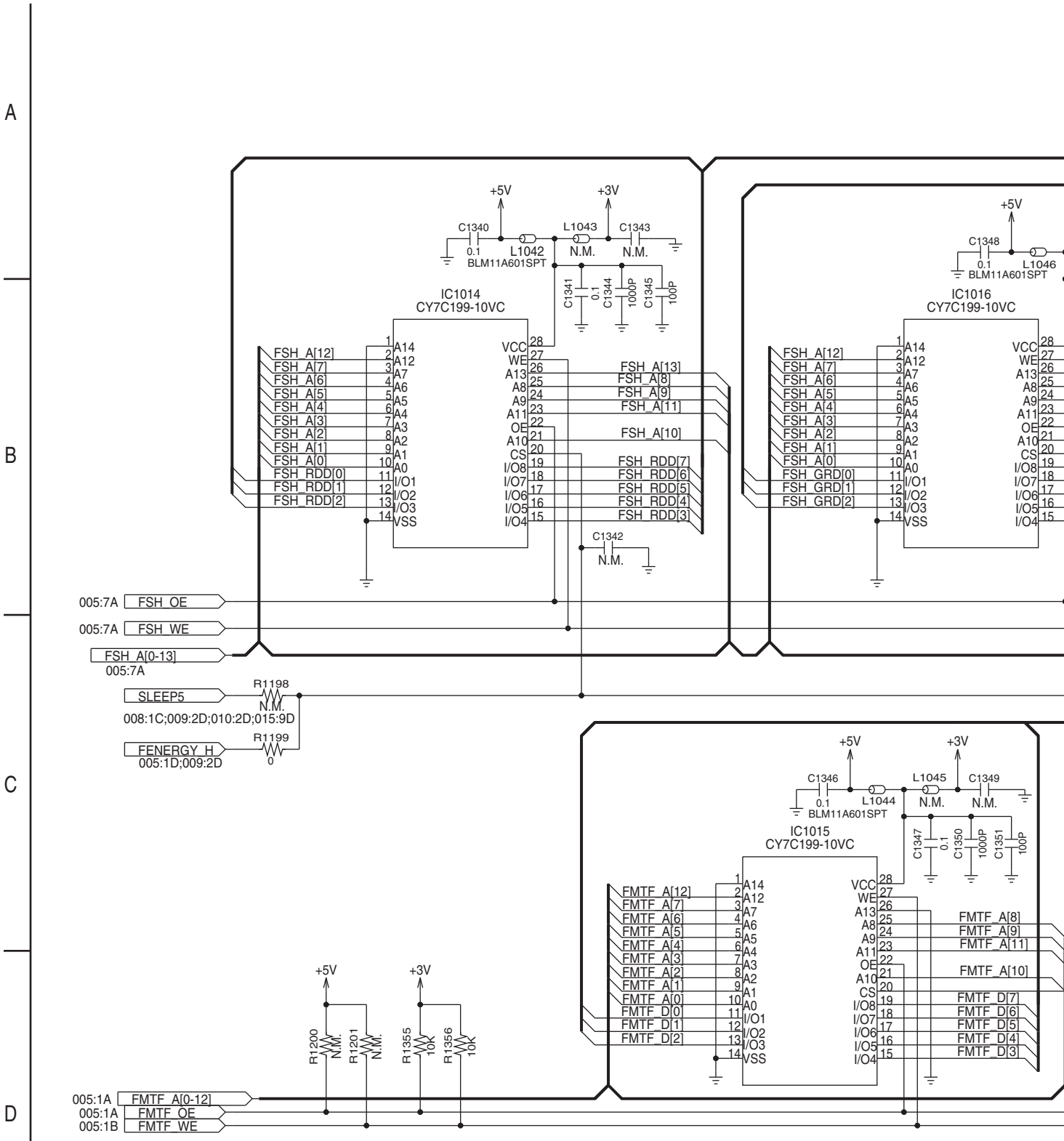
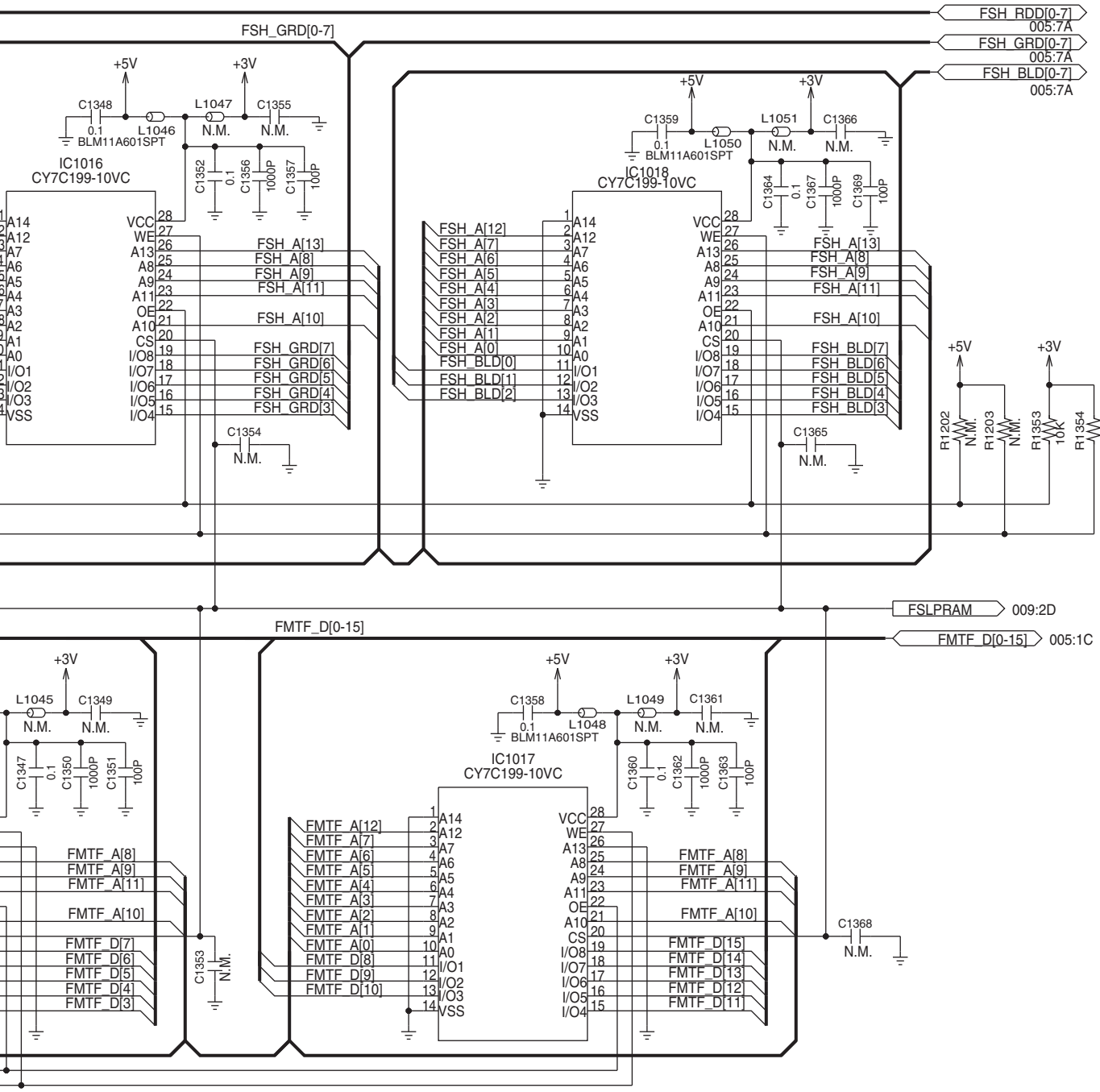
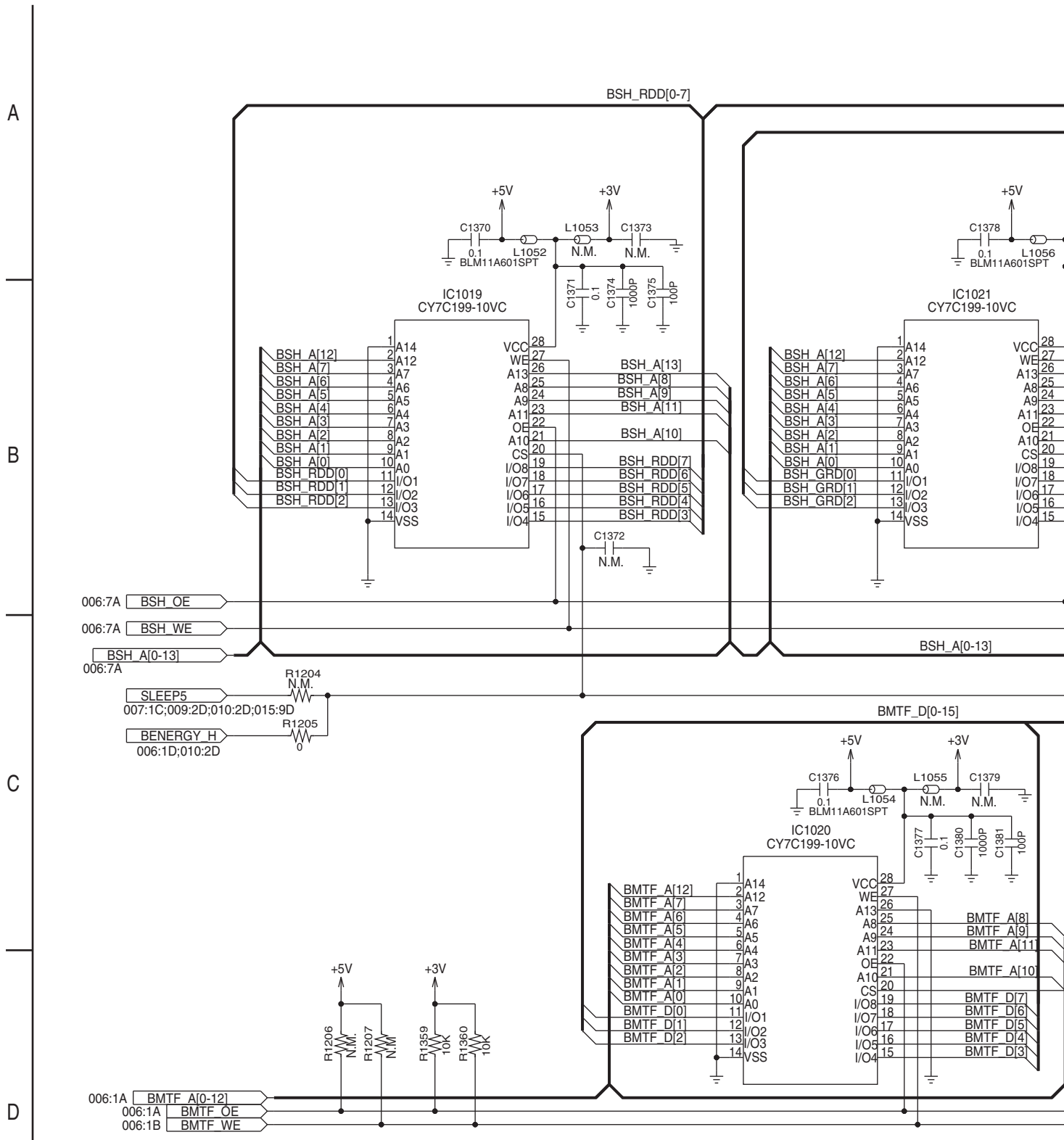
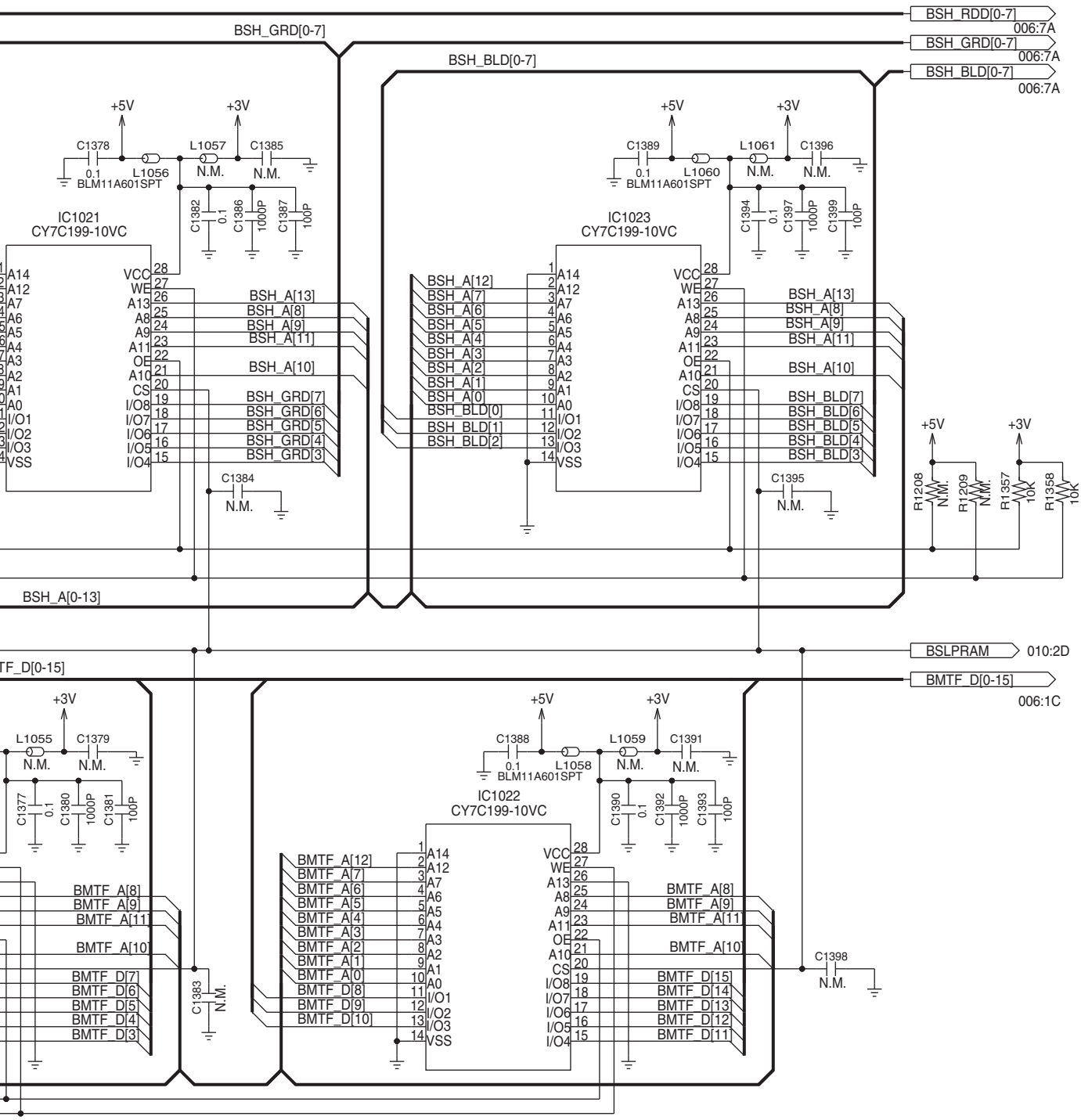
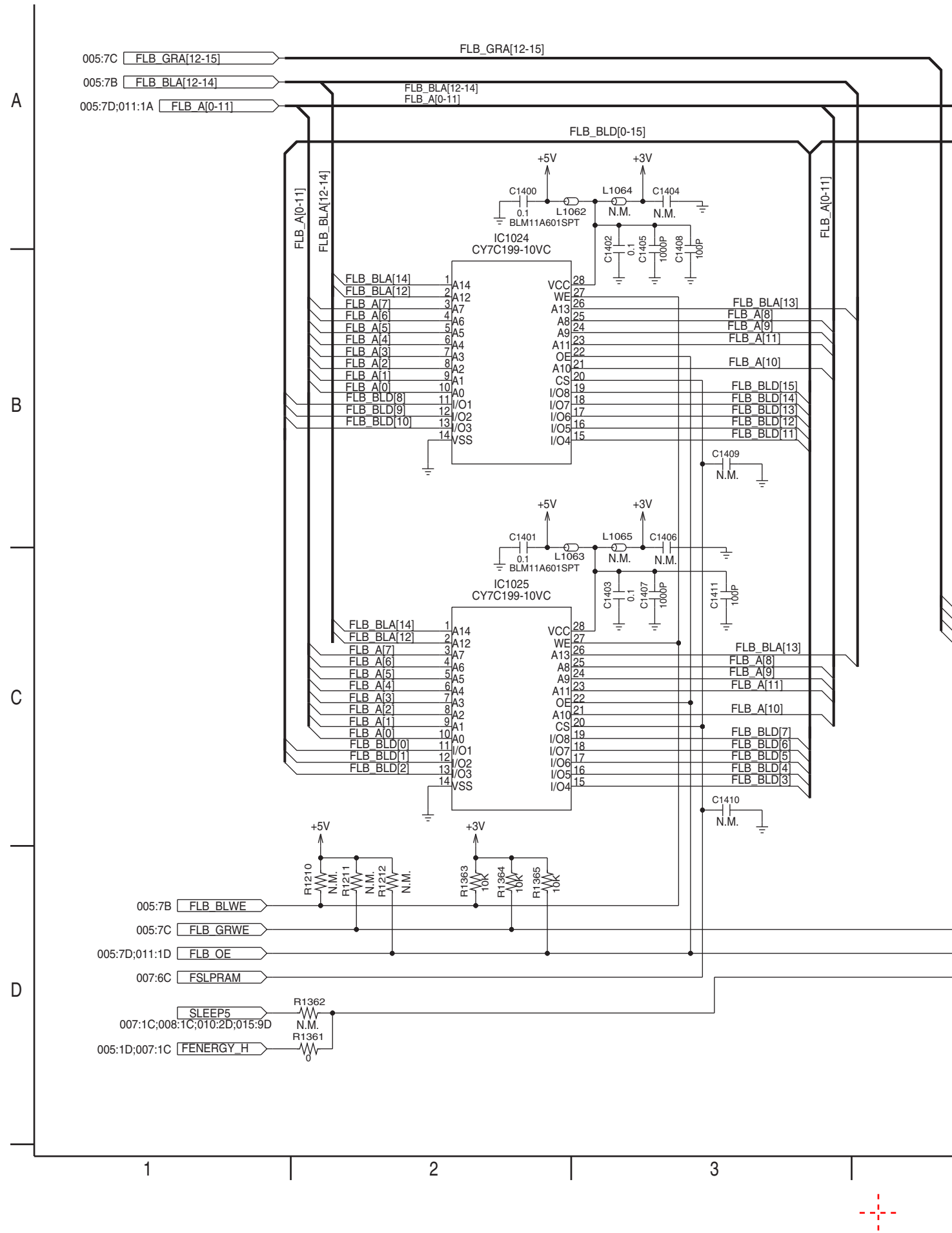
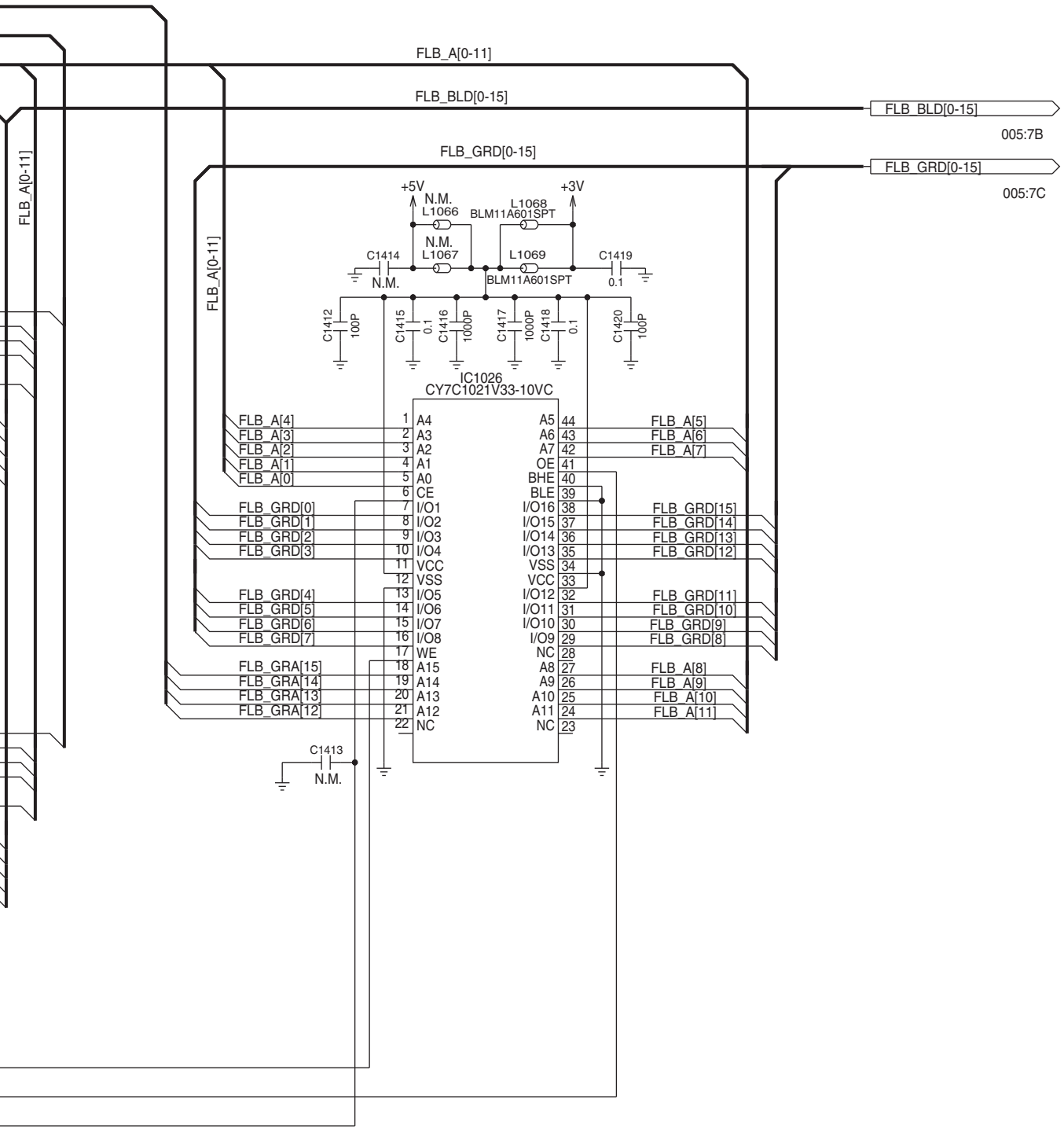

A
B
C
D
1
2
3
+5V
+3V
C1340
0.1
L1042
BLM11A601SPT
L1043
N.M.
C1343
N.M.
C1341
0.1
C1344
1000P
C1345
100P
IC1014
CY7C199-10VC
FSH_A[12]
FSH_A[7]
FSH_A[6]
FSH_A[5]
FSH_A[4]
FSH_A[3]
FSH_A[2]
FSH_A[1]
FSH_A[0]
FSH_RDD[0]
FSH_RDD[1]
FSH_RDD[2]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
FSH_A[13]
FSH_A[8]
FSH_A[9]
FSH_A[11]
FSH_A[10]
FSH_RDD[7]
FSH_RDD[6]
FSH_RDD[5]
FSH_RDD[4]
FSH_RDD[3]
C1342
N.M.
C1348
0.1
L1046
BLM11A601SPT
IC1016
CY7C199-10VC
FSH_GRD[0]
FSH_GRD[1]
FSH_GRD[2]
005:7A
FSH_OE
005:7A
FSH_WE
FSH_A[0-13]
005:7A
SLEEP5
R1198
N.M.
008:1C;009:2D;010:2D;015:9D
FENERGY_H
R1199
0
005:1D;009:2D
C1346
0.1
L1044
BLM11A601SPT
L1045
N.M.
C1349
N.M.
C1347
0.1
C1350
1000P
C1351
100P
IC1015
CY7C199-10VC
FMTF_A[12]
FMTF_A[7]
FMTF_A[6]
FMTF_A[5]
FMTF_A[4]
FMTF_A[3]
FMTF_A[2]
FMTF_A[1]
FMTF_A[0]
FMTF_D[0]
FMTF_D[1]
FMTF_D[2]
FMTF_A[8]
FMTF_A[9]
FMTF_A[11]
FMTF_A[10]
FMTF_D[7]
FMTF_D[6]
FMTF_D[5]
FMTF_D[4]
FMTF_D[3]
R1200
N.M.
R1201
N.M.
R1355
10K
R1356
10K
005:1A
FMTF_A[0-12]
005:1A
FMTF_OE
005:1B
FMTF_WE


FSH_RDD[0-7]
005:7A
FSH_GRD[0-7]
005:7A
FSH_BLD[0-7]
005:7A
FSH_GRD[0-7]
+5V
+3V
C1348
0.1
L1046
BLM11A601SPT
L1047
N.M.
C1355
N.M.
IC1016
CY7C199-10VC
C1352
0.1
C1356
1000P
C1357
100P
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
FSH_A[13]
FSH_A[8]
FSH_A[9]
FSH_A[11]
FSH_A[10]
FSH_GRD[7]
FSH_GRD[6]
FSH_GRD[5]
FSH_GRD[4]
FSH_GRD[3]
C1354
N.M.
FSH_A[12]
FSH_A[7]
FSH_A[6]
FSH_A[5]
FSH_A[4]
FSH_A[3]
FSH_A[2]
FSH_A[1]
FSH_A[0]
FSH_BLD[0]
FSH_BLD[1]
FSH_BLD[2]
C1359
0.1
L1050
BLM11A601SPT
L1051
N.M.
C1366
N.M.
IC1018
CY7C199-10VC
C1364
0.1
C1367
1000P
C1369
100P
FSH_BLD[7]
FSH_BLD[6]
FSH_BLD[5]
FSH_BLD[4]
FSH_BLD[3]
C1365
N.M.
R1202
N.M.
R1203
N.M.
R1353
10K
R1354
10K
FSLPRAM
009:2D
FMTF_D[0-15]
FMTF_D[0-15]
005:1C
L1045
N.M.
C1349
N.M.
C1347
0.1
C1350
1000P
C1351
100P
FMTF_A[8]
FMTF_A[9]
FMTF_A[11]
FMTF_A[10]
FMTF_D[7]
FMTF_D[6]
FMTF_D[5]
FMTF_D[4]
FMTF_D[3]
C1353
N.M.
C1358
0.1
L1048
BLM11A601SPT
L1049
N.M.
C1361
N.M.
IC1017
CY7C199-10VC
C1360
0.1
C1362
1000P
C1363
100P
FMTF_A[12]
FMTF_A[7]
FMTF_A[6]
FMTF_A[5]
FMTF_A[4]
FMTF_A[3]
FMTF_A[2]
FMTF_A[1]
FMTF_A[0]
FMTF_D[8]
FMTF_D[9]
FMTF_D[10]
FMTF_D[15]
FMTF_D[14]
FMTF_D[13]
FMTF_D[12]
FMTF_D[11]
C1368
N.M.


BSH_RDD[0-7]
+5V
+3V
C1370
0.1
L1052
BLM11A601SPT
L1053
N.M.
C1373
N.M.
C1371
0.1
C1374
1000P
C1375
100P
IC1019
CY7C199-10VC
BSH_A[12]
BSH_A[7]
BSH_A[6]
BSH_A[5]
BSH_A[4]
BSH_A[3]
BSH_A[2]
BSH_A[1]
BSH_A[0]
BSH_RDD[0]
BSH_RDD[1]
BSH_RDD[2]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
BSH_A[13]
BSH_A[8]
BSH_A[9]
BSH_A[11]
BSH_A[10]
BSH_RDD[7]
BSH_RDD[6]
BSH_RDD[5]
BSH_RDD[4]
BSH_RDD[3]
C1372
N.M.
+5V
C1378
0.1
L1056
BLM11A601SPT
IC1021
CY7C199-10VC
BSH_GRD[0]
BSH_GRD[1]
BSH_GRD[2]
006:7A
BSH_OE
006:7A
BSH_WE
BSH_A[0-13]
006:7A
BSH_A[0-13]
R1204
N.M.
SLEEP5
007:1C;009:2D;010:2D;015:9D
R1205
0
BENERGY_H
006:1D;010:2D
BMTF_D[0-15]
+5V
+3V
C1376
0.1
L1054
BLM11A601SPT
L1055
N.M.
C1379
N.M.
IC1020
CY7C199-10VC
C1377
0.1
C1380
1000P
C1381
100P
BMTF_A[12]
BMTF_A[7]
BMTF_A[6]
BMTF_A[5]
BMTF_A[4]
BMTF_A[3]
BMTF_A[2]
BMTF_A[1]
BMTF_A[0]
BMTF_D[0]
BMTF_D[1]
BMTF_D[2]
BMTF_A[8]
BMTF_A[9]
BMTF_A[11]
BMTF_A[10]
BMTF_D[7]
BMTF_D[6]
BMTF_D[5]
BMTF_D[4]
BMTF_D[3]
+5V
+3V
R1206
N.M.
R1207
N.M.
R1359
10K
R1360
10K
006:1A
BMTF_A[0-12]
006:1A
BMTF_OE
006:1B
BMTF_WE


BSH_RDD[0-7]
006:7A
BSH_GRD[0-7]
006:7A
BSH_BLD[0-7]
006:7A
BSH_GRD[0-7]
BSH_BLD[0-7]
+5V
+3V
C1378
0.1
L1056
BLM11A601SPT
L1057
N.M.
C1385
N.M.
C1382
0.1
C1386
1000P
C1387
100P
IC1021
CY7C199-10VC
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
BSH_A[13]
BSH_A[8]
BSH_A[9]
BSH_A[11]
BSH_A[10]
BSH_GRD[7]
BSH_GRD[6]
BSH_GRD[5]
BSH_GRD[4]
BSH_GRD[3]
C1384
N.M.
C1389
0.1
L1060
BLM11A601SPT
L1061
N.M.
C1396
N.M.
C1394
0.1
C1397
1000P
C1399
100P
IC1023
CY7C199-10VC
BSH_A[12]
BSH_A[7]
BSH_A[6]
BSH_A[5]
BSH_A[4]
BSH_A[3]
BSH_A[2]
BSH_A[1]
BSH_A[0]
BSH_BLD[0]
BSH_BLD[1]
BSH_BLD[2]
BSH_BLD[7]
BSH_BLD[6]
BSH_BLD[5]
BSH_BLD[4]
BSH_BLD[3]
C1395
N.M.
R1208
N.M.
R1209
N.M.
R1357
10K
R1358
10K
BSH_A[0-13]
BSLPRAM
010:2D
TF_D[0-15]
BMTF_D[0-15]
006:1C
L1055
N.M.
C1379
N.M.
C1377
0.1
C1380
1000P
C1381
100P
BMTF_A[8]
BMTF_A[9]
BMTF_A[11]
BMTF_A[10]
BMTF_D[7]
BMTF_D[6]
BMTF_D[5]
BMTF_D[4]
BMTF_D[3]
C1383
N.M.
C1388
0.1
L1058
BLM11A601SPT
L1059
N.M.
C1391
N.M.
C1390
0.1
C1392
1000P
C1393
100P
IC1022
CY7C199-10VC
BMTF_A[12]
BMTF_A[7]
BMTF_A[6]
BMTF_A[5]
BMTF_A[4]
BMTF_A[3]
BMTF_A[2]
BMTF_A[1]
BMTF_A[0]
BMTF_D[8]
BMTF_D[9]
BMTF_D[10]
BMTF_D[15]
BMTF_D[14]
BMTF_D[13]
BMTF_D[12]
BMTF_D[11]
C1398
N.M.


005:7C FLB_GRA[12-15]
005:7B FLB_BLA[12-14]
005:7D;011:1A FLB_A[0-11]
FLB_GRA[12-15]
FLB_BLA[12-14]
FLB_A[0-11]
FLB_BLD[0-15]
FLB_A[0-11]
FLB_BLA[12-14]
FLB_A[0-11]
+5V
+3V
C1400
0.1
L1062
BLM11A601SPT
L1064
N.M.
C1404
N.M.
C1402
0.1
C1405
1000P
C1408
100P
IC1024
CY7C199-10VC
FLB_BLA[14]
FLB_BLA[12]
FLB_A[7]
FLB_A[6]
FLB_A[5]
FLB_A[4]
FLB_A[3]
FLB_A[2]
FLB_A[1]
FLB_A[0]
FLB_BLD[8]
FLB_BLD[9]
FLB_BLD[10]
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
I/O1
I/O2
I/O3
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
I/O8
I/O7
I/O6
I/O5
I/O4
FLB_BLA[13]
FLB_A[8]
FLB_A[9]
FLB_A[11]
FLB_A[10]
FLB_BLD[15]
FLB_BLD[14]
FLB_BLD[13]
FLB_BLD[12]
FLB_BLD[11]
C1409
N.M.
C1401
0.1
L1063
BLM11A601SPT
L1065
N.M.
C1406
N.M.
C1403
0.1
C1407
1000P
C1411
100P
IC1025
CY7C199-10VC
FLB_BLA[14]
FLB_BLA[12]
FLB_A[7]
FLB_A[6]
FLB_A[5]
FLB_A[4]
FLB_A[3]
FLB_A[2]
FLB_A[1]
FLB_A[0]
FLB_BLD[0]
FLB_BLD[1]
FLB_BLD[2]
FLB_BLA[13]
FLB_A[8]
FLB_A[9]
FLB_A[11]
FLB_A[10]
FLB_BLD[7]
FLB_BLD[6]
FLB_BLD[5]
FLB_BLD[4]
FLB_BLD[3]
C1410
N.M.
R1210
N.M.
R1211
N.M.
R1212
N.M.
R1363
10K
R1364
10K
R1365
10K
005:7B FLB_BLWE
005:7C FLB_GRWE
005:7D;011:1D FLB_OE
007:6C FSLPRAM
SLEEP5
007:1C;008:1C;010:2D;015:9D
R1362
N.M.
005:1D;007:1C FENERGY_H
R1361
0
A
B
C
D
1
2
3



(MAIN Board)

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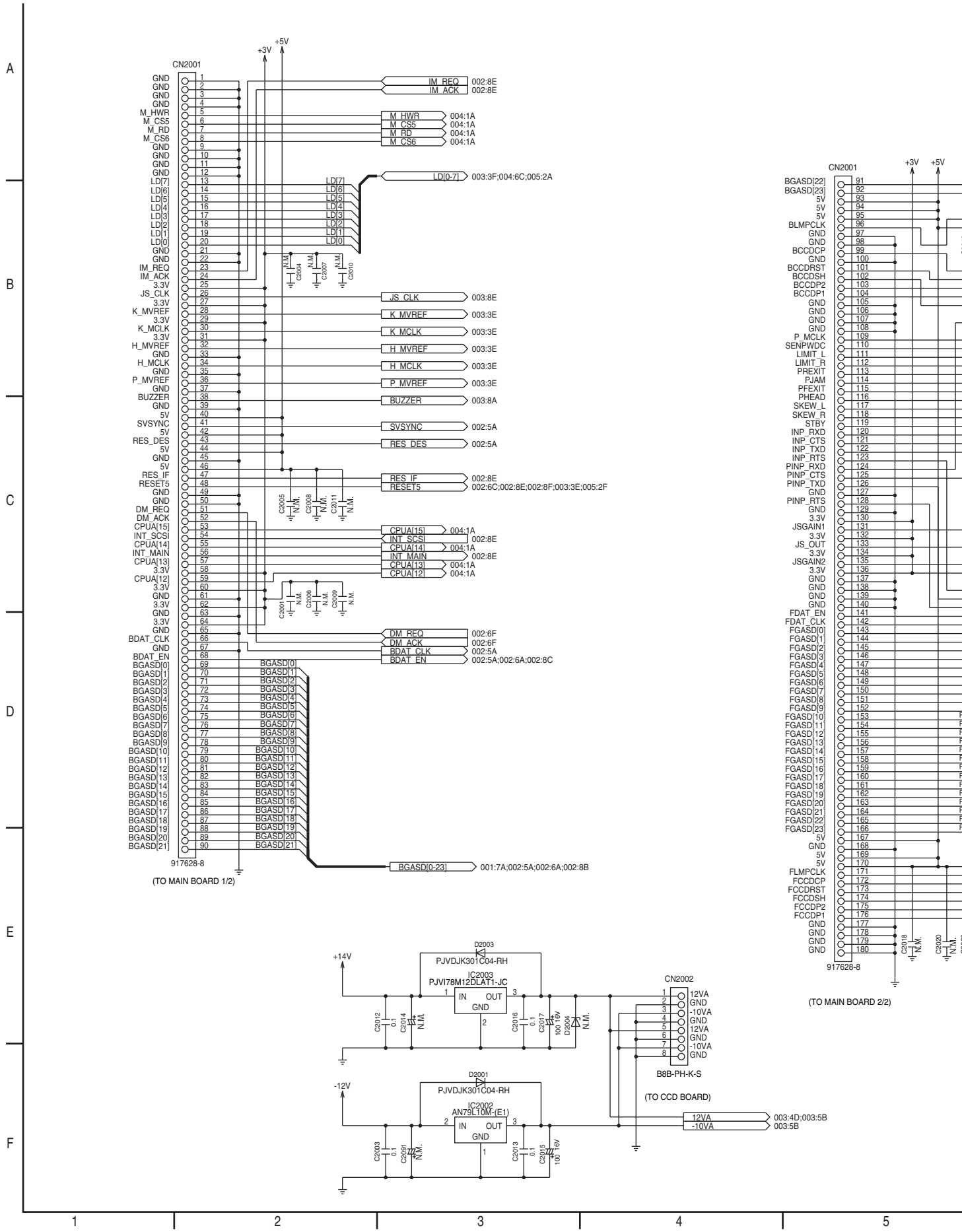
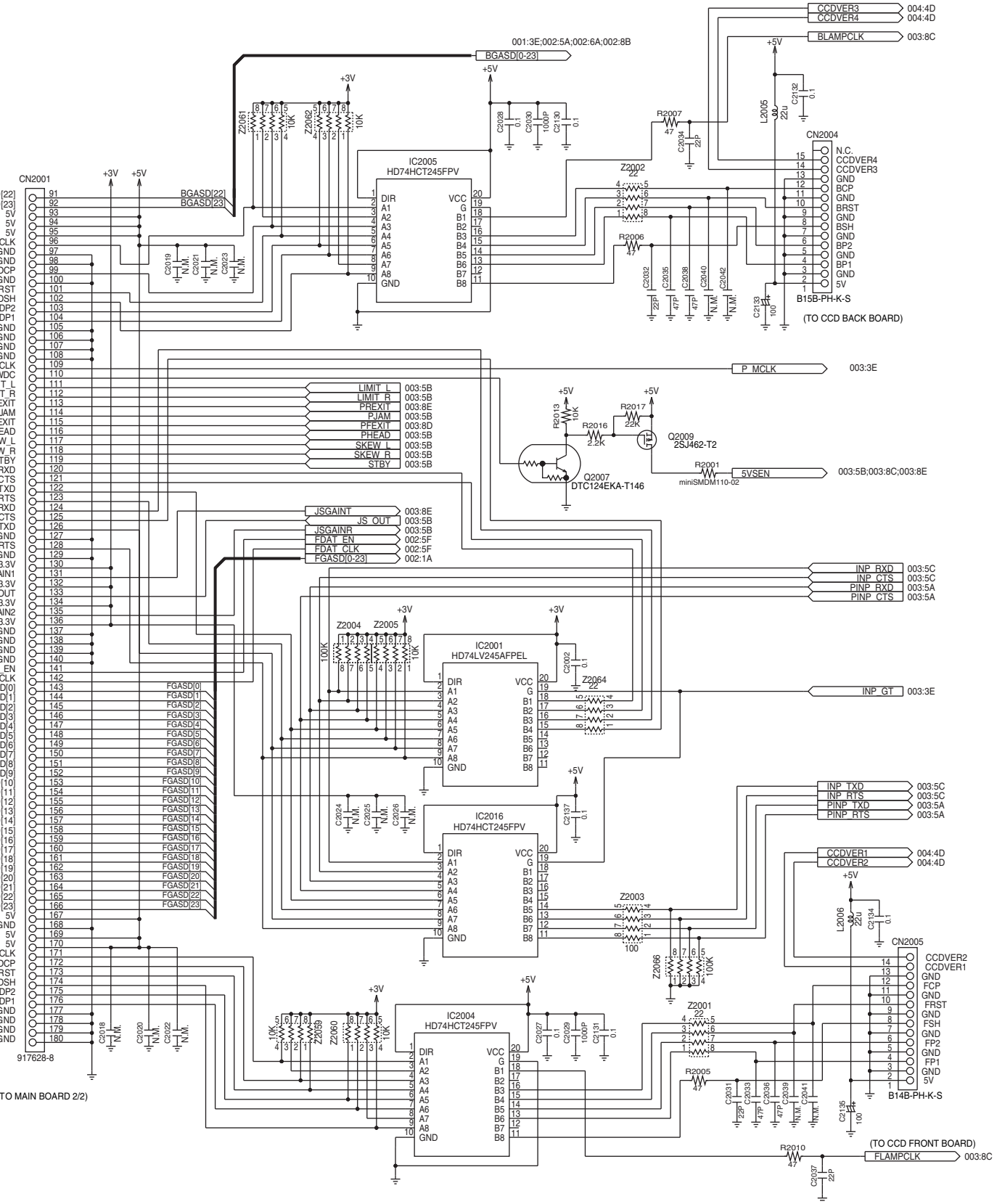

CN2001
GND
M_HWR
M_CS5
M_RD
M_CS6
LD[7]
LD[6]
LD[5]
LD[4]
LD[3]
LD[2]
LD[1]
LD[0]
IM_REQ
IM_ACK
3.3V
JS_CLK
K_MVREF
K_MCLK
H_MVREF
H_MCLK
P_MVREF
BUZZER
5V
SVSYNC
RES_DES
RES_IF
RESET5
DM_REQ
DM_ACK
CPUA[15]
INT_SCSI
CPUA[14]
INT_MAIN
CPUA[13]
CPUA[12]
BDAT_CLK
BDAT_EN
BGASD[0]
BGASD[1]
BGASD[2]
BGASD[3]
BGASD[4]
BGASD[5]
BGASD[6]
BGASD[7]
BGASD[8]
BGASD[9]
BGASD[10]
BGASD[11]
BGASD[12]
BGASD[13]
BGASD[14]
BGASD[15]
BGASD[16]
BGASD[17]
BGASD[18]
BGASD[19]
BGASD[20]
BGASD[21]
917628-8
(TO MAIN BOARD 1/2)
+3V
+5V
IM_REQ 002:8E
IM_ACK 002:8E
M_HWR 004:1A
M_CS5 004:1A
M_RD 004:1A
M_CS6 004:1A
LD[0-7] 003:3F;004:6C;005:2A
JS_CLK 003:8E
K_MVREF 003:3E
K_MCLK 003:3E
H_MVREF 003:3E
H_MCLK 003:3E
P_MVREF 003:3E
BUZZER 003:8A
SVSYNC 002:5A
RES_DES 002:5A
RES_IF 002:8E
RESET5 002:6C;002:8E;002:8F;003:3E;005:2F
CPUA[15] 004:1A
INT_SCSI 002:8E
CPUA[14] 004:1A
INT_MAIN 002:8E
CPUA[13] 004:1A
CPUA[12] 004:1A
DM_REQ 002:6F
DM_ACK 002:6F
BDAT_CLK 002:5A
BDAT_EN 002:5A;002:6A;002:8C
BGASD[0-23] 001:7A;002:5A;002:6A;002:8B
N.M.
C2004
C2007
C2010
C2005
C2008
C2011
C2001
C2006
C2009
CN2001
BGASD[22]
BGASD[23]
BLMPCLK
BCCDCP
BCCDRST
BCCDSH
BCCDP2
BCCDP1
P_MCLK
SENPWDC
LIMIT_L
LIMIT_R
PREXIT
PJAM
PFEXIT
PHEAD
SKEW_L
SKEW_R
STBY
INP_RXD
INP_CTS
INP_TXD
INP_RTS
PINP_RXD
PINP_CTS
PINP_TXD
PINP_RTS
3.3V
JSGAIN1
JS_OUT
JSGAIN2
FDAT_EN
FDAT_CLK
FGASD[0]
FGASD[1]
FGASD[2]
FGASD[3]
FGASD[4]
FGASD[5]
FGASD[6]
FGASD[7]
FGASD[8]
FGASD[9]
FGASD[10]
FGASD[11]
FGASD[12]
FGASD[13]
FGASD[14]
FGASD[15]
FGASD[16]
FGASD[17]
FGASD[18]
FGASD[19]
FGASD[20]
FGASD[21]
FGASD[22]
FGASD[23]
FLMPCLK
FCCDCP
FCCDRST
FCCDSH
FCCDP2
FCCDP1
917628-8
(TO MAIN BOARD 2/2)
C2018
C2020
+14V
-12V
D2003
PJVDJK301C04-RH
IC2003
PJVI78M12DLAT1-JC
IN
OUT
GND
C2012
C2014
C2016
C2017
D2004
D2001
PJVDJK301C04-RH
IC2002
AN79L10M-(E1)
C2003
C2001
C2013
C2015
CN2002
12VA
-10VA
B8B-PH-K-S
(TO CCD BOARD)
12VA 003:4D;003:5B
-10VA 003:5B



(MOTHER Board)

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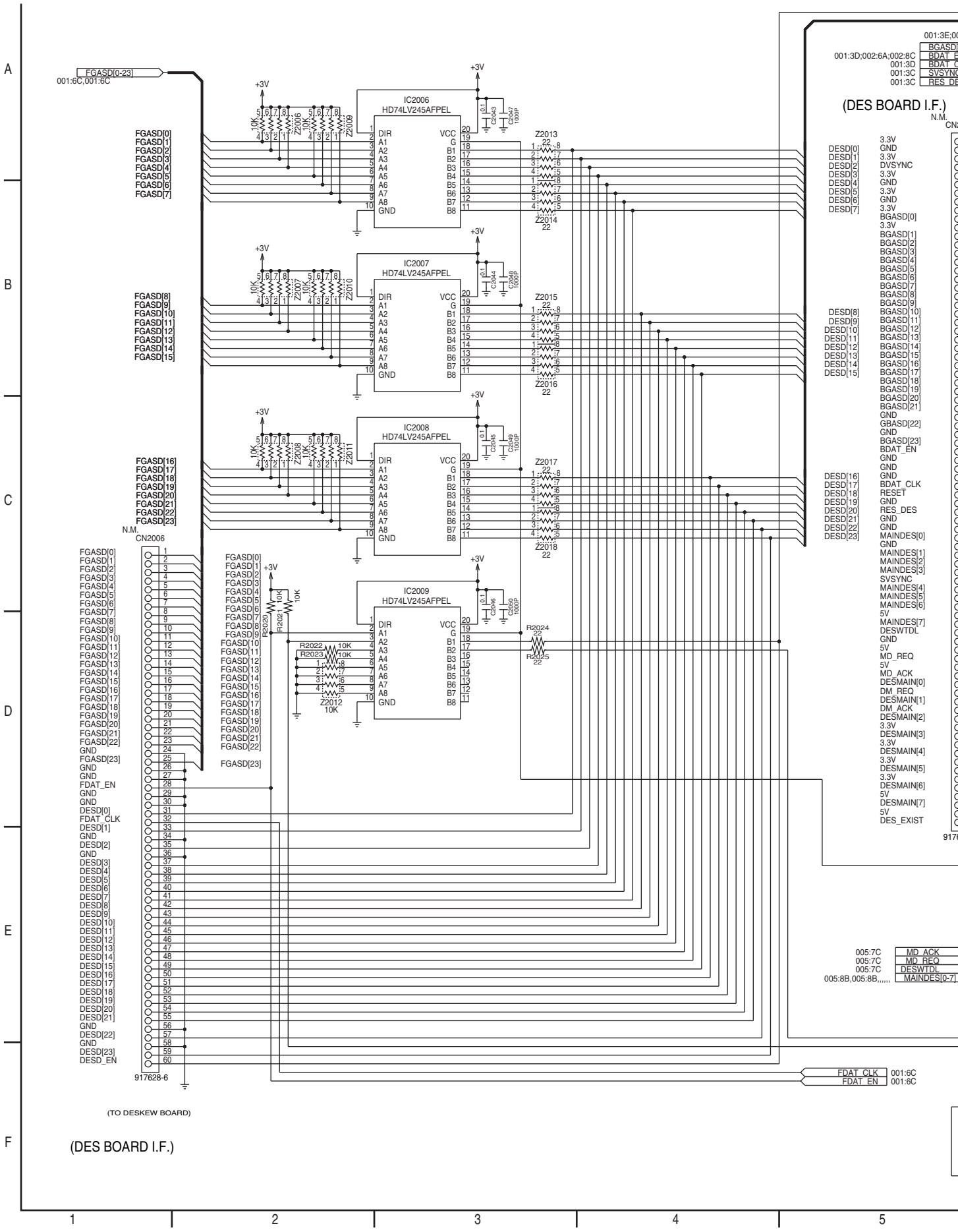
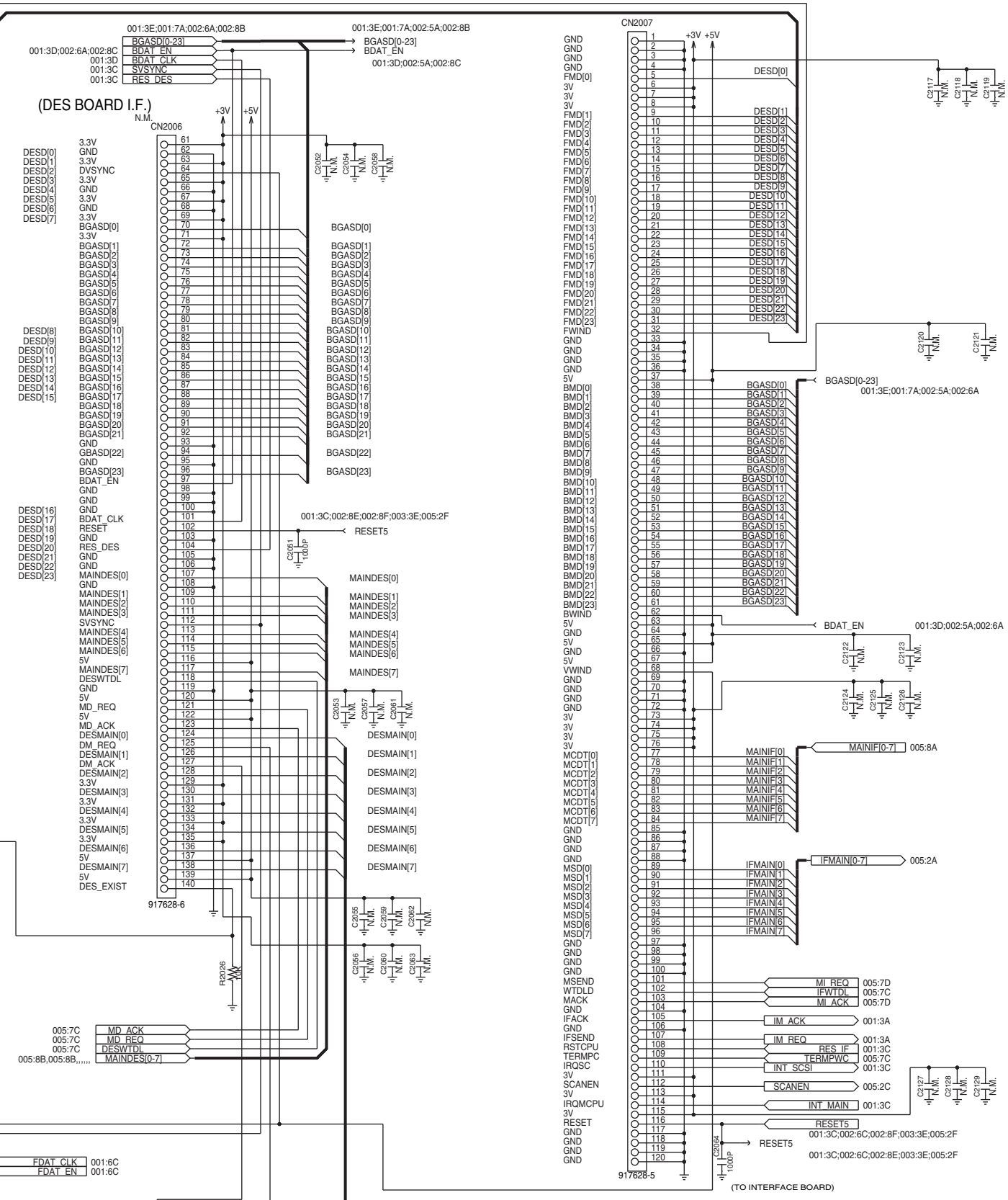
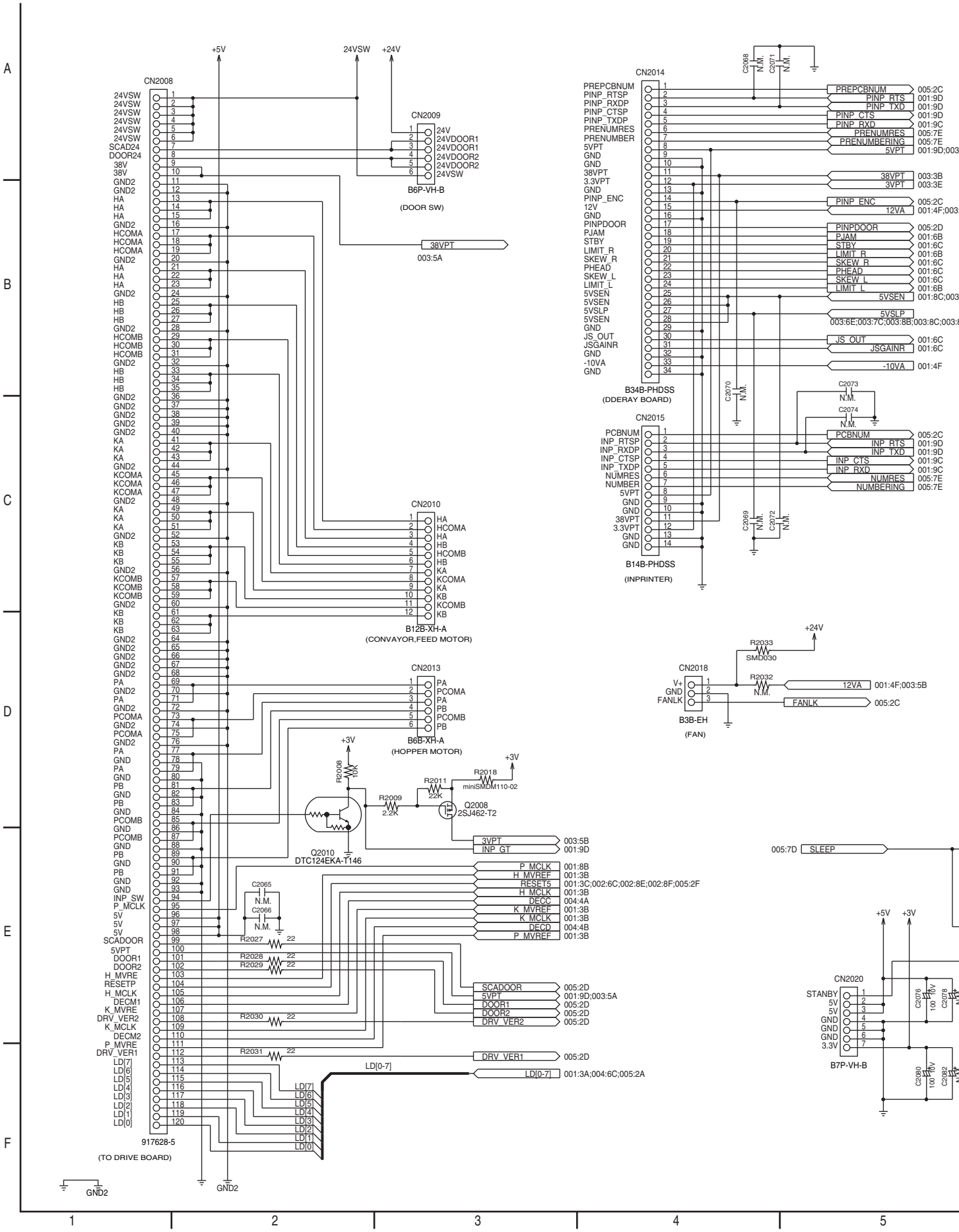
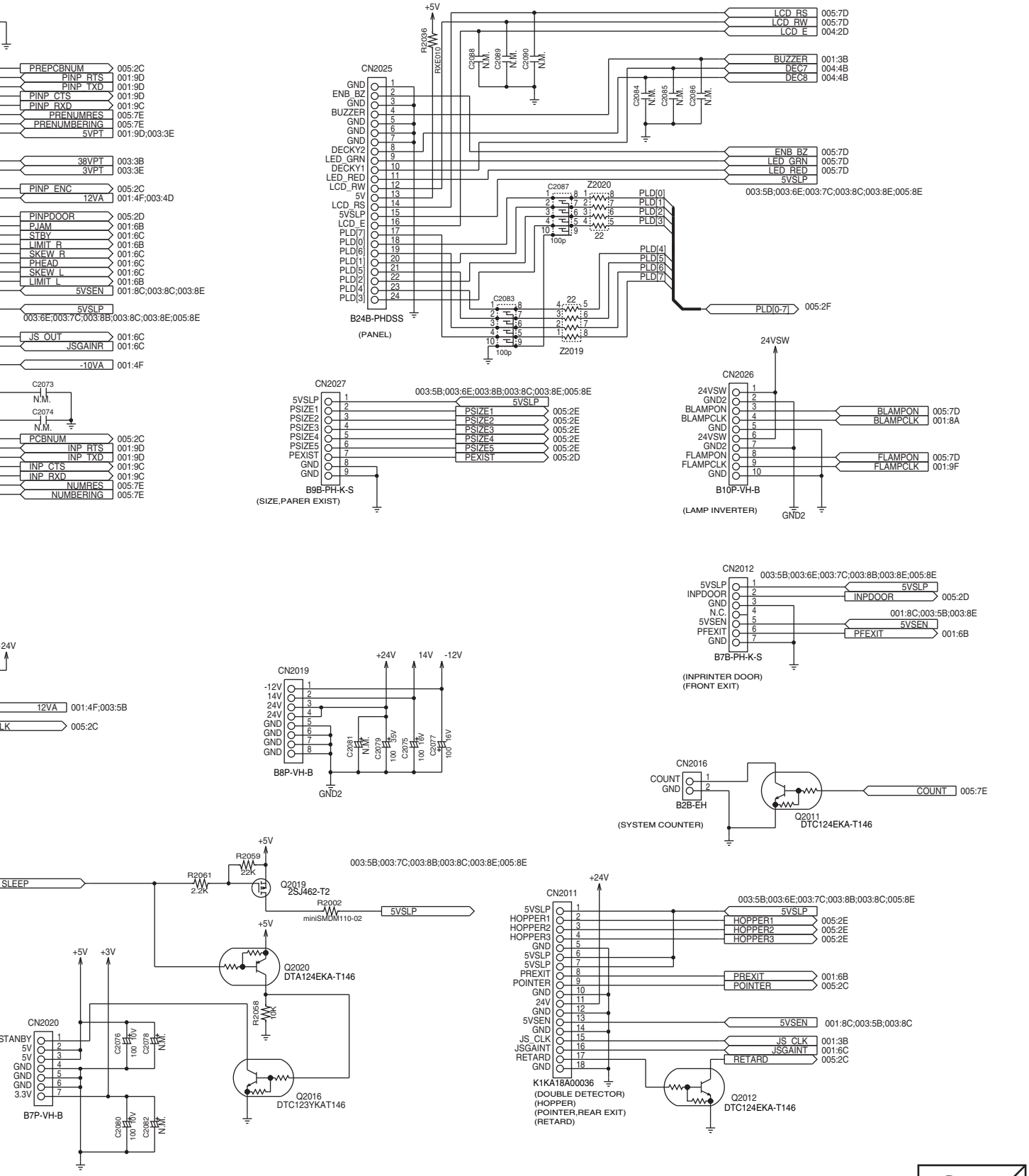

FGASD[0-23]
001:6C,001:6C
IC2006
HD74LV245AFPEL
IC2007
HD74LV245AFPEL
IC2008
HD74LV245AFPEL
IC2009
HD74LV245AFPEL
DIR
A1
A2
A3
A4
A5
A6
A7
A8
GND
VCC
G
B1
B2
B3
B4
B5
B6
B7
B8
+3V
10K
0.1
1000P
FGASD[0]
FGASD[1]
FGASD[2]
FGASD[3]
FGASD[4]
FGASD[5]
FGASD[6]
FGASD[7]
FGASD[8]
FGASD[9]
FGASD[10]
FGASD[11]
FGASD[12]
FGASD[13]
FGASD[14]
FGASD[15]
FGASD[16]
FGASD[17]
FGASD[18]
FGASD[19]
FGASD[20]
FGASD[21]
FGASD[22]
FGASD[23]
N.M.
CN2006
917628-6
(TO DESKEW BOARD)
(DES BOARD I.F.)
(DES BOARD I.F.)
N.M.
3.3V
GND
DVSYNC
BGASD[0]
BGASD[1]
BGASD[2]
BGASD[3]
BGASD[4]
BGASD[5]
BGASD[6]
BGASD[7]
BGASD[8]
BGASD[9]
BGASD[10]
BGASD[11]
BGASD[12]
BGASD[13]
BGASD[14]
BGASD[15]
BGASD[16]
BGASD[17]
BGASD[18]
BGASD[19]
BGASD[20]
BGASD[21]
GBASD[22]
BGASD[23]
BDAT_EN
RESET
RES_DES
MAINDES[0]
MAINDES[1]
MAINDES[2]
MAINDES[3]
SVSYNC
MAINDES[4]
MAINDES[5]
MAINDES[6]
MAINDES[7]
DESWTDL
MD_REQ
MD_ACK
DESMAIN[0]
DM_REQ
DESMAIN[1]
DM_ACK
DESMAIN[2]
DESMAIN[3]
DESMAIN[4]
DESMAIN[5]
DESMAIN[6]
DESMAIN[7]
DES_EXIST
BDAT_CLK
FDAT_CLK
FDAT_EN
001:3E;00
001:3D;002:6A;002:8C
001:3D
001:3C
001:3C
005:7C
005:7C
005:7C
005:8B,005:8B,,,,,,
MD_ACK
MD_REQ
DESWTDL
MAINDES[0-7]
1
2
3
4
5
A
B
C
D
E
F


(DES BOARD I.F.)
CN2006
CN2007
001:3E;001:7A;002:6A;002:8B
001:3E;001:7A;002:5A;002:8B
001:3D;002:6A;002:8C
001:3D;002:5A;002:8C
BGASD[0-23]
BDAT_EN
BDAT_CLK
SVSYNC
RES_DES
001:3C;002:8E;002:8F;003:3E;005:2F
RESET5
MAINDES[0-7]
DESMAIN[0-7]
MD_ACK
MD_REQ
DESWTDL
DM_REQ
DM_ACK
FDAT_CLK
FDAT_EN
001:6C
005:7C
005:8B,005:8B,,,,,,
005:2B
001:3D
DESD[0-23]
BGASD[0-23]
MAINIF[0-7]
005:8A
IFMAIN[0-7]
005:2A
MI_REQ
IFWTDL
MI_ACK
IM_ACK
IM_REQ
RES_IF
TERMPWC
INT_SCSI
SCANEN
INT_MAIN
005:7D
005:7C
001:3A
001:3C
005:7C
005:2C
001:3C
001:3C;002:6C;002:8F;003:3E;005:2F
001:3C;002:6C;002:8E;003:3E;005:2F
(TO INTERFACE BOARD)
917628-6
917628-5
N.M.
+3V
+5V
(MOTHER Board)
KV-SS905C
2
5


CN2008
CN2009
B6P-VH-B
(DOOR SW)
38VPT
003:5A
CN2010
B12B-XH-A
(CONVAYOR,FEED MOTOR)
CN2013
B6B-XH-A
(HOPPER MOTOR)
917628-5
(TO DRIVE BOARD)
CN2014
B34B-PHDSS
(DDERAY BOARD)
CN2015
B14B-PHDSS
(INPRINTER)
CN2018
B3B-EH
(FAN)
CN2020
B7P-VH-B
Q2010
DTC124EKA-T146
Q2008
2SJ462-T2
SLEEP
GND2



(MOTHER Board)

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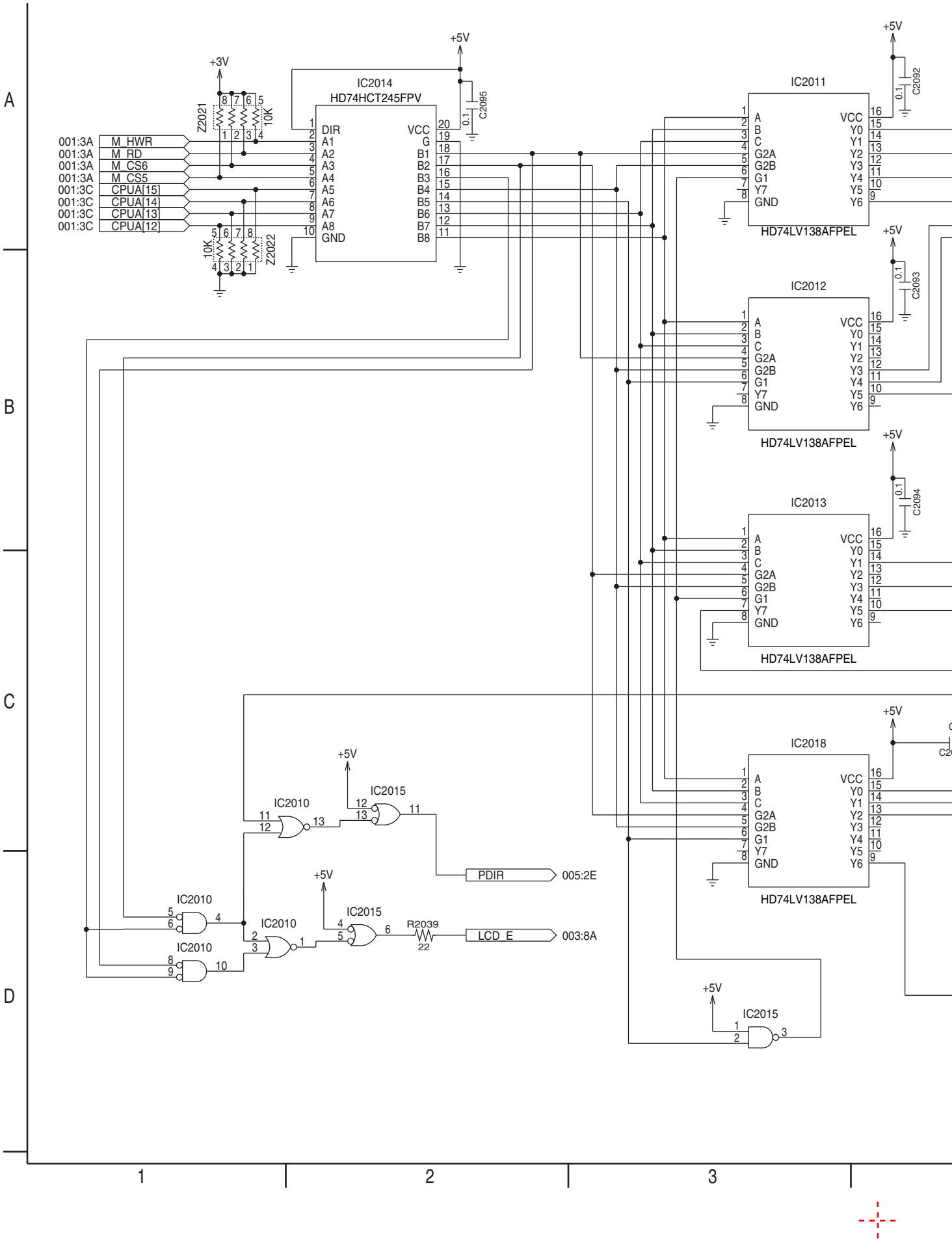
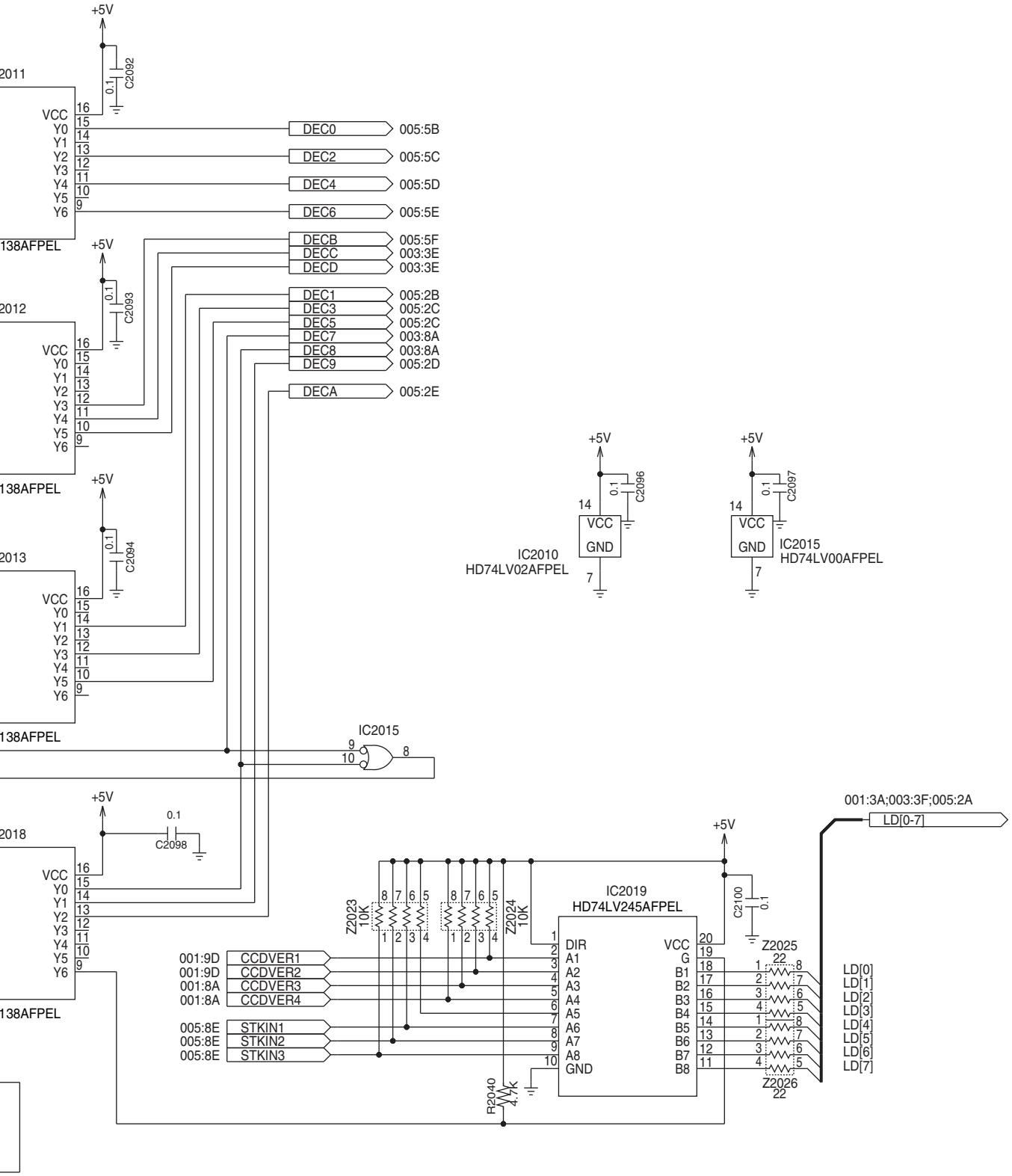

A
B
C
D
1
2
3
+3V
+5V
Z2021
10K
Z2022
IC2014
HD74HCT245FPV
DIR
A1
A2
A3
A4
A5
A6
A7
A8
GND
VCC
G
B1
B2
B3
B4
B5
B6
B7
B8
C2095
0.1
001:3A M_HWR
001:3A M_RD
001:3A M_CS6
001:3A M_CS5
001:3C CPUA[15]
001:3C CPUA[14]
001:3C CPUA[13]
001:3C CPUA[12]
IC2011
IC2012
IC2013
IC2018
HD74LV138AFPEL
A
B
C
G2A
G2B
G1
Y7
GND
VCC
Y0
Y1
Y2
Y3
Y4
Y5
Y6
C2092
C2093
C2094
IC2010
IC2015
PDIR
005:2E
LCD_E
003:8A
R2039
22



(MOTHER Board)

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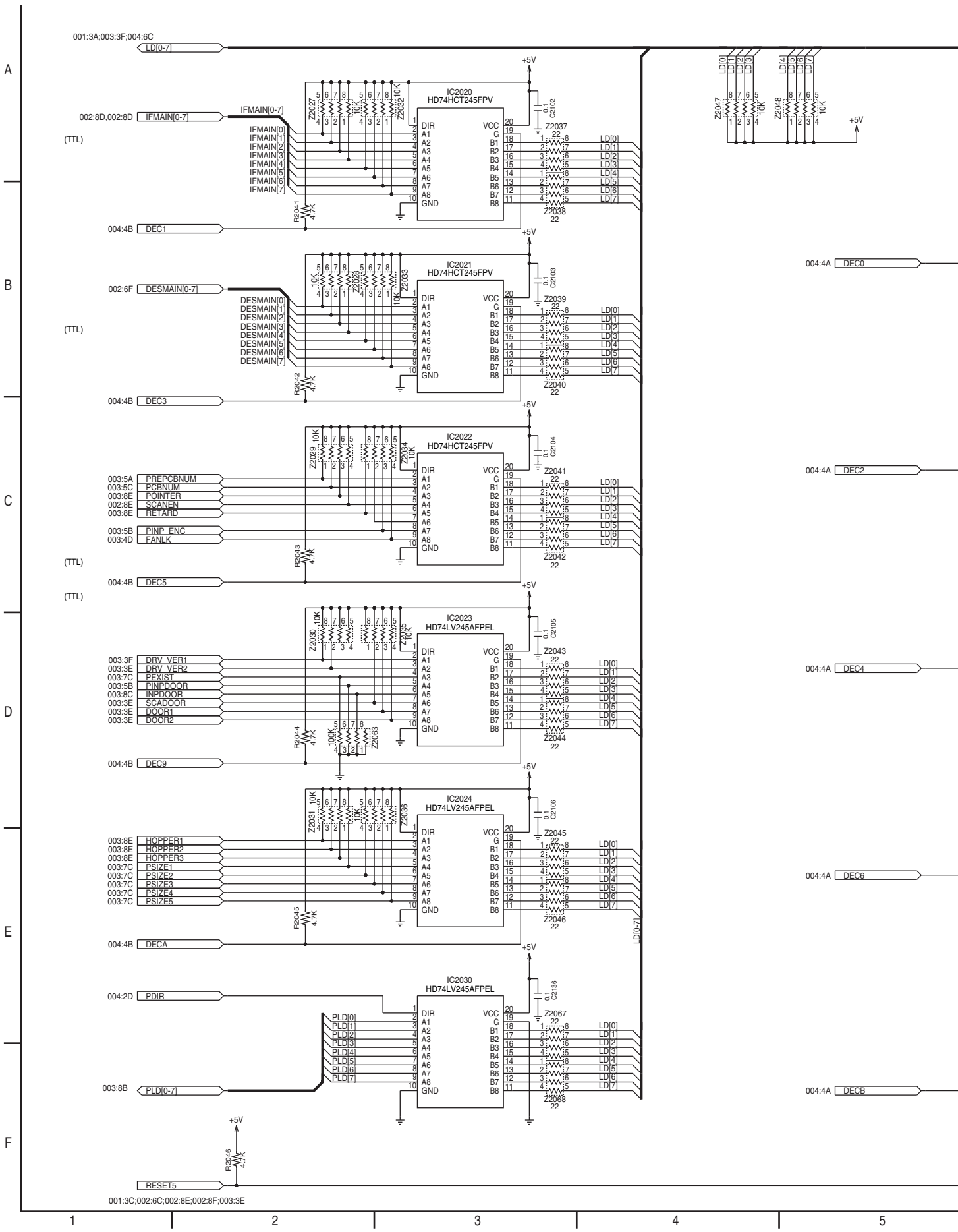
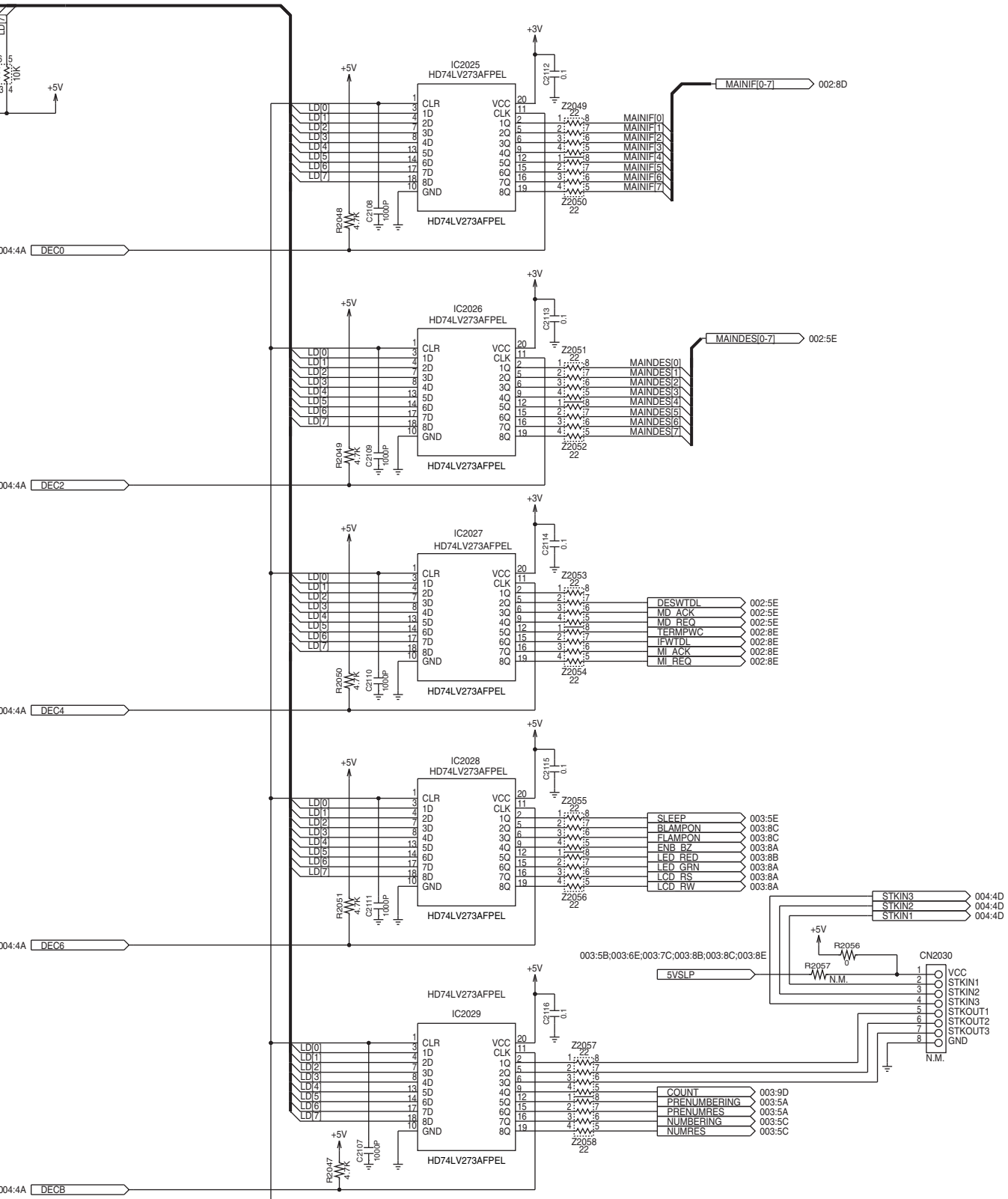

001:3A;003:3F;004:6C
LD[0-7]
IC2020
HD74HCT245FPV
IFMAIN[0-7]
002:8D,002:8D
(TTL)
004:4B DEC1
IC2021
HD74HCT245FPV
002:6F DESMAIN[0-7]
004:4B DEC3
IC2022
HD74HCT245FPV
003:5A PREPCBNUM
003:5C PCBNUM
003:8E POINTER
002:8E SCANEN
003:8E RETARD
003:5B PINP_ENC
003:4D FANLK
004:4B DEC5
IC2023
HD74LV245AFPEL
003:3F DRV_VER1
003:3E DRV_VER2
003:7C PEXIST
003:5B PINPDOOR
003:8C INPDOOR
003:3E SCADOOR
003:3E DOOR1
003:3E DOOR2
004:4B DEC9
IC2024
HD74LV245AFPEL
003:8E HOPPER1
003:8E HOPPER2
003:8E HOPPER3
003:7C PSIZE1
003:7C PSIZE2
003:7C PSIZE3
003:7C PSIZE4
003:7C PSIZE5
004:4B DECA
IC2030
HD74LV245AFPEL
004:2D PDIR
003:8B PLD[0-7]
RESET5
001:3C;002:6C;002:8E;002:8F;003:3E
004:4A DEC0
004:4A DEC2
004:4A DEC4
004:4A DEC6
004:4A DECB
LD[0-7]
+5V
DIR
VCC
G
A1
A2
A3
A4
A5
A6
A7
A8
GND
B1
B2
B3
B4
B5
B6
B7
B8
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F



(MOTHER Board)

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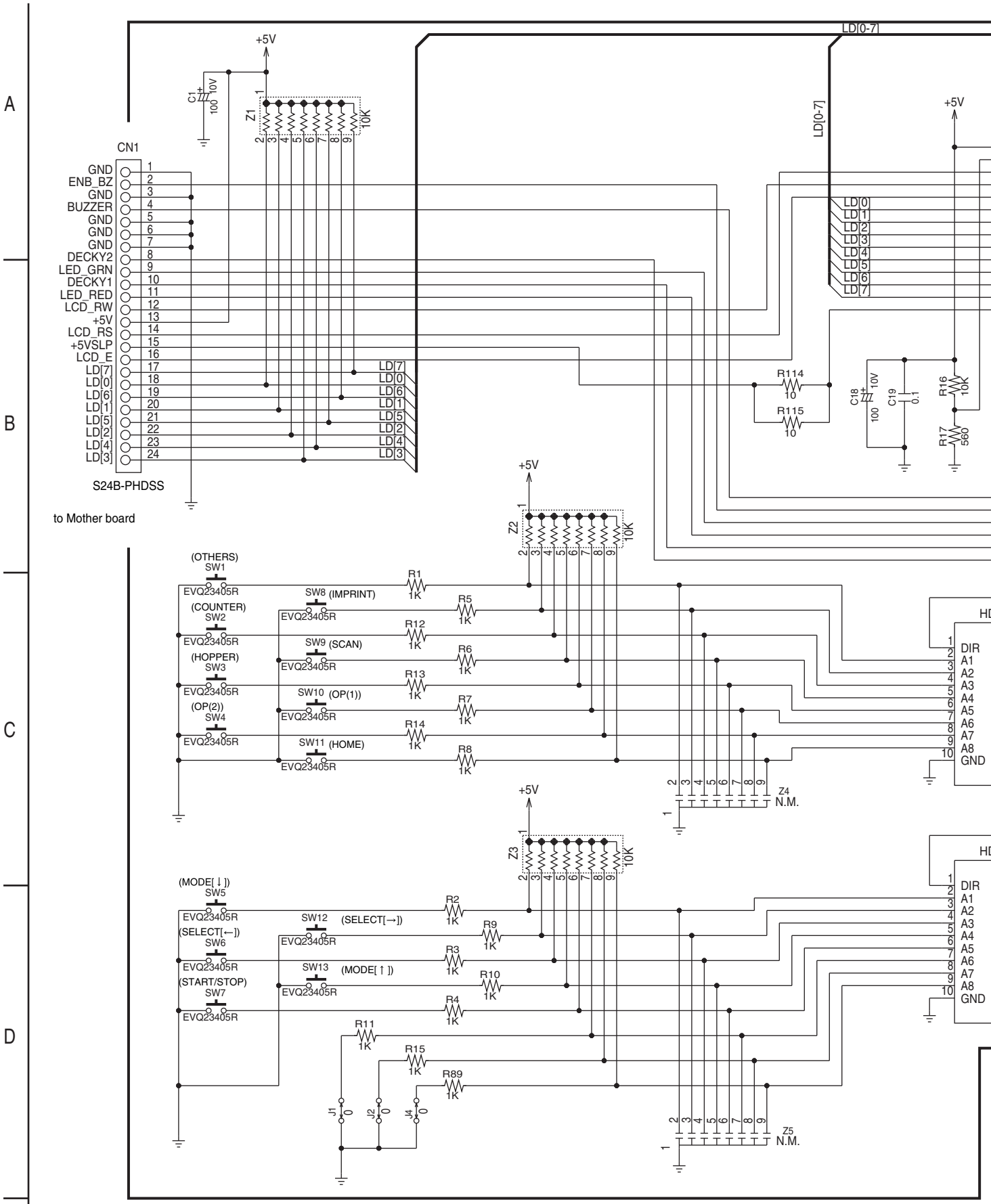
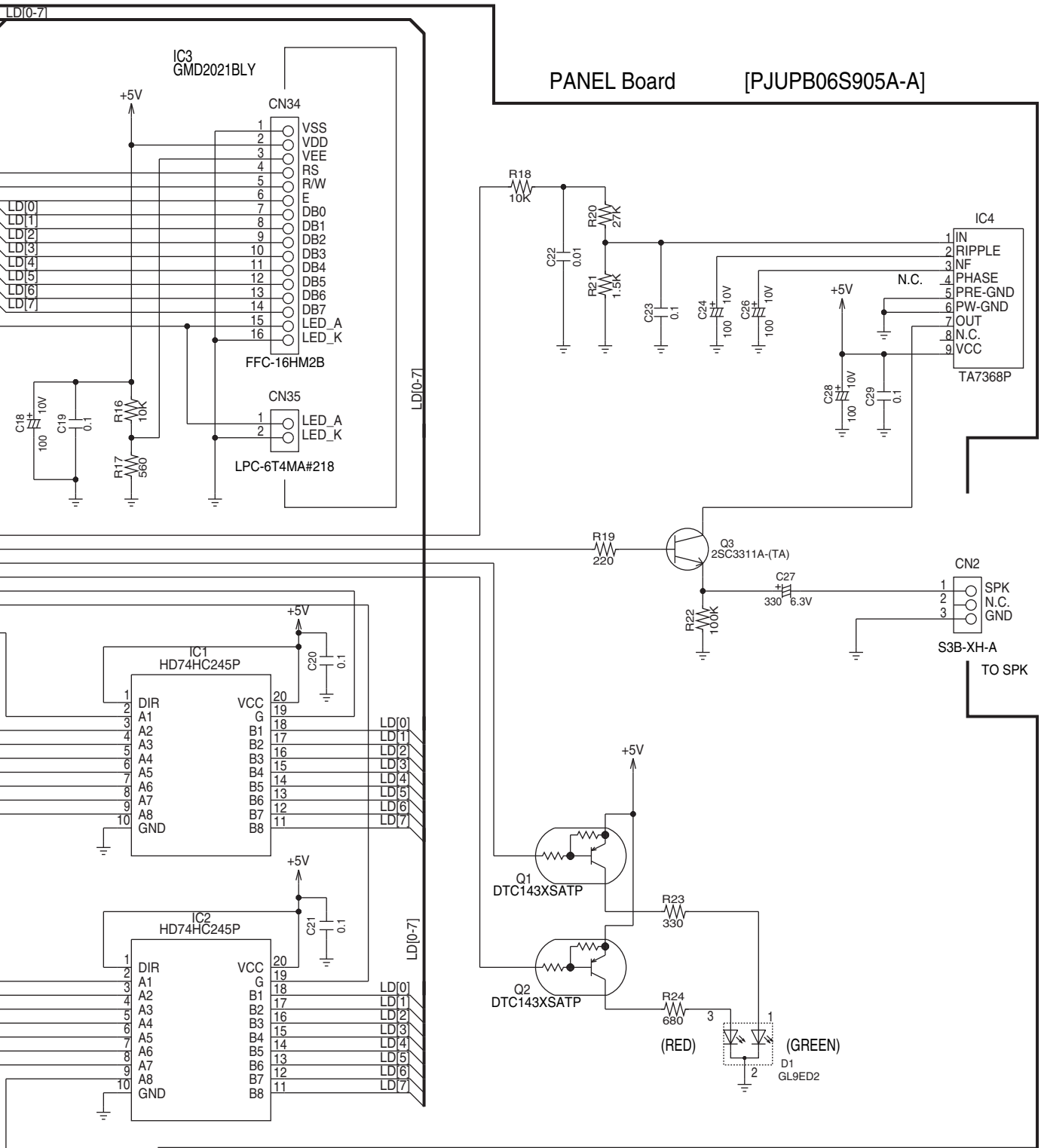
5 | 6 | 7 | 8


CN1
GND
ENB_BZ
GND
BUZZER
GND
GND
GND
DECKY2
LED_GRN
DECKY1
LED_RED
LCD_RW
+5V
LCD_RS
+5VSLP
LCD_E
LD[7]
LD[0]
LD[6]
LD[1]
LD[5]
LD[2]
LD[4]
LD[3]
S24B-PHDSS
to Mother board
+5V
C1
100
10V
Z1
10K
LD[0-7]
LD[0]
LD[1]
LD[2]
LD[3]
LD[4]
LD[5]
LD[6]
LD[7]
R114
10
R115
10
C18
C19
0.1
R16
10K
R17
560
Z2
(OTHERS)
SW1
EVQ23405R
(COUNTER)
SW2
(HOPPER)
SW3
(OP(2))
SW4
SW8 (IMPRINT)
SW9 (SCAN)
SW10 (OP(1))
SW11 (HOME)
R1
R5
R12
R6
R13
R7
R14
R8
1K
Z4
N.M.
DIR
A1
A2
A3
A4
A5
A6
A7
A8
GND
Z3
(MODE[↓])
SW5
(SELECT[←])
SW6
(START/STOP)
SW7
SW12 (SELECT[→])
SW13 (MODE[↑])
R2
R9
R3
R10
R4
R11
R15
R89
J1
J2
J4
Z5
A
B
C
D
1
2
3



(PANEL, SENSOR Boards)

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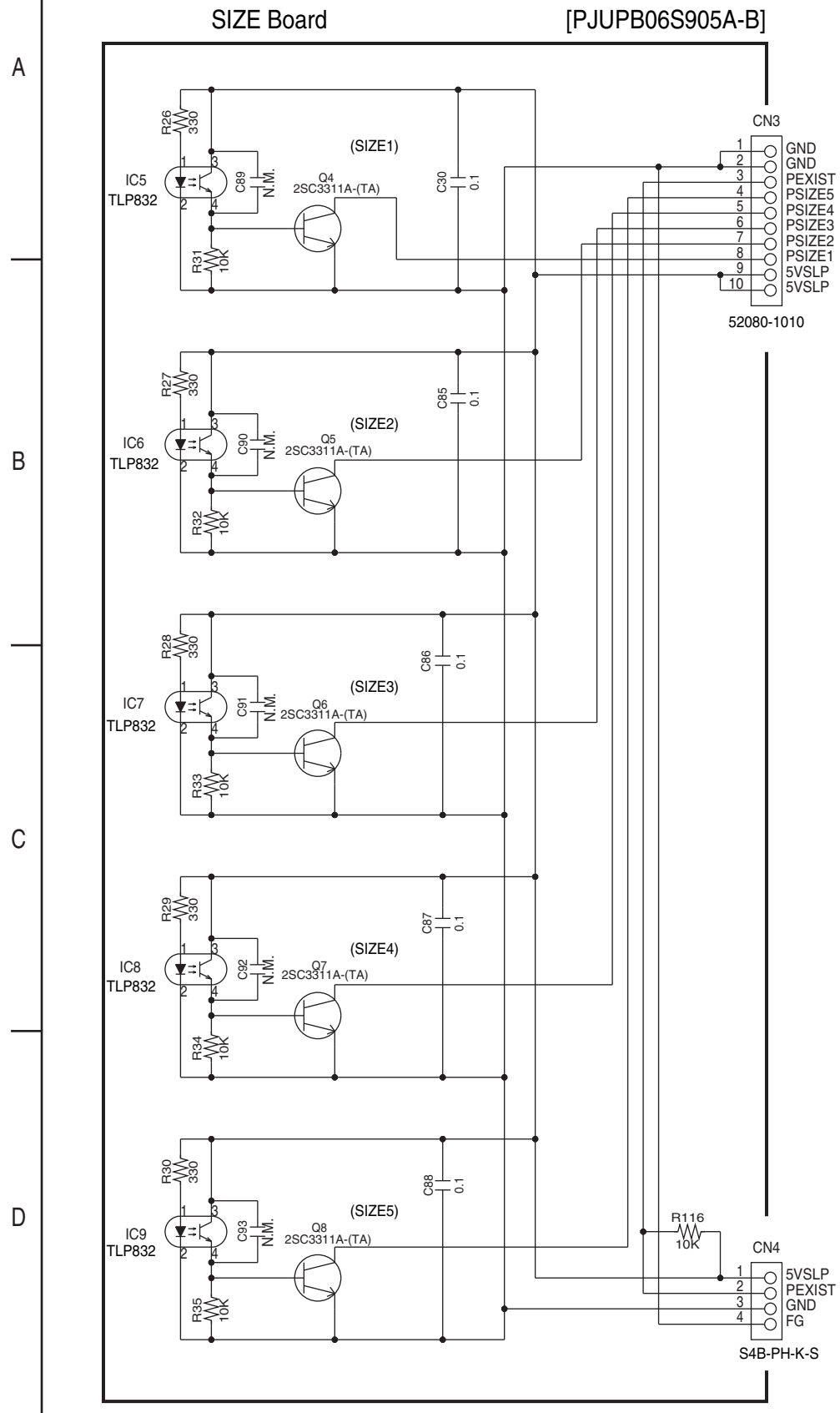
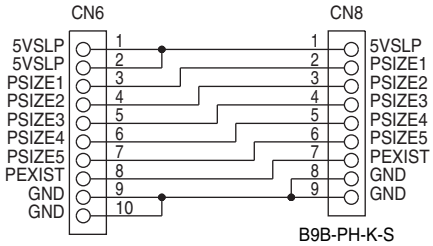

SIZE Board
[PJUPB06S905A-B]
(SIZE1)
(SIZE2)
(SIZE3)
(SIZE4)
(SIZE5)
IC5 TLP832
IC6 TLP832
IC7 TLP832
IC8 TLP832
IC9 TLP832
Q4 2SC3311A-(TA)
Q5 2SC3311A-(TA)
Q6 2SC3311A-(TA)
Q7 2SC3311A-(TA)
Q8 2SC3311A-(TA)
R26 330
R27 330
R28 330
R29 330
R30 330
R31 10K
R32 10K
R33 10K
R34 10K
R35 10K
C89 N.M.
C90 N.M.
C91 N.M.
C92 N.M.
C93 N.M.
C30 0.1
C85 0.1
C86 0.1
C87 0.1
C88 0.1
CN3
GND
GND
PEXIST
PSIZE5
PSIZE4
PSIZE3
PSIZE2
PSIZE1
5VSLP
5VSLP
52080-1010
R116 10K
CN4
5VSLP
PEXIST
GND
FG
S4B-PH-K-S
to Paper detector
FLEXI
HOPPER [POSITION] Boa
(LOWER)
IC10 TLP832
R36 330
C94 N.M.
R38 10K
Q9 2SC3311A-(T
HOPPER [ANGLE] Board
(ANGLE)
IC11 TLP832
R37 330
C96 N.M.
R39 10K
Q10
2SC3311A-
A
B
C
D
1
2
3

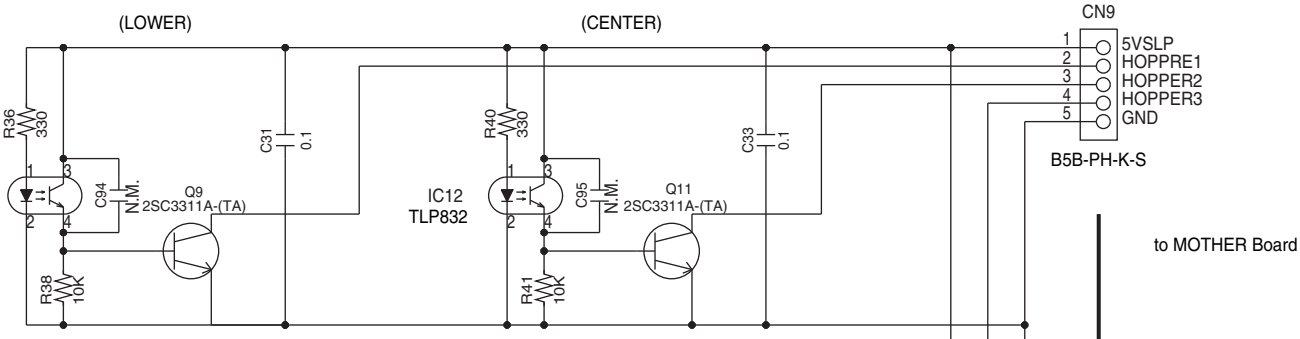
HOPPER [CONNECTOR] Board
[PJUPB06S905A-C]



FLEXIBLE CABLE

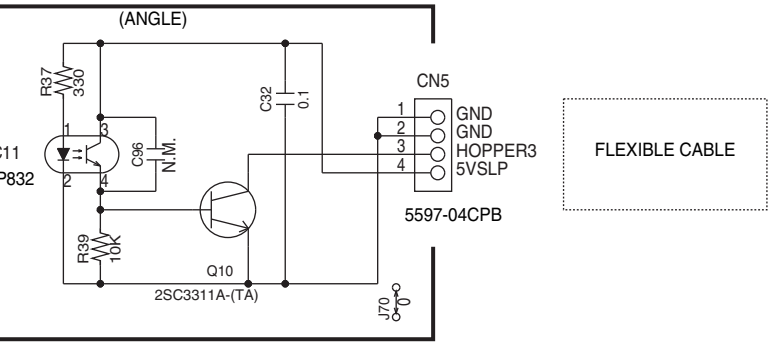
to MOTHER Board

ER [POSITION] Board [PJUPB06S905A-D]

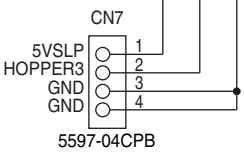


to MOTHER Board

ER [ANGLE] Board [PJUPB06S905A-E]



FLEXIBLE CABLE



(PANEL, SENSOR Boards)

KV-SS905C

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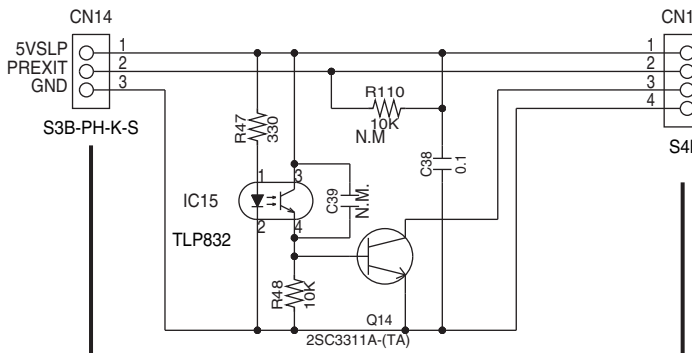
POINTER Board

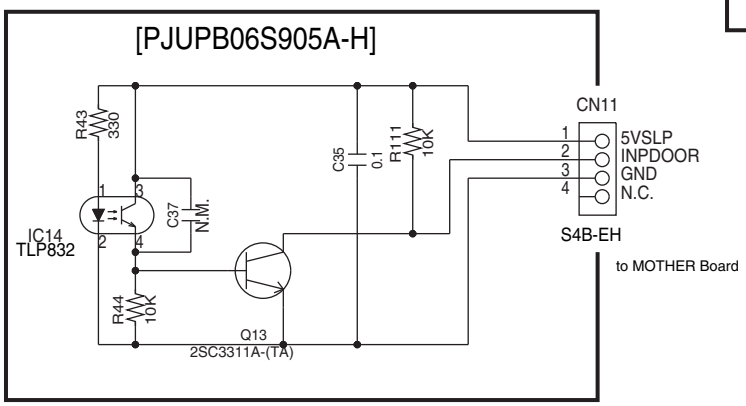
[PJUPB06S905A-F]



from Ending [rear] position sensor

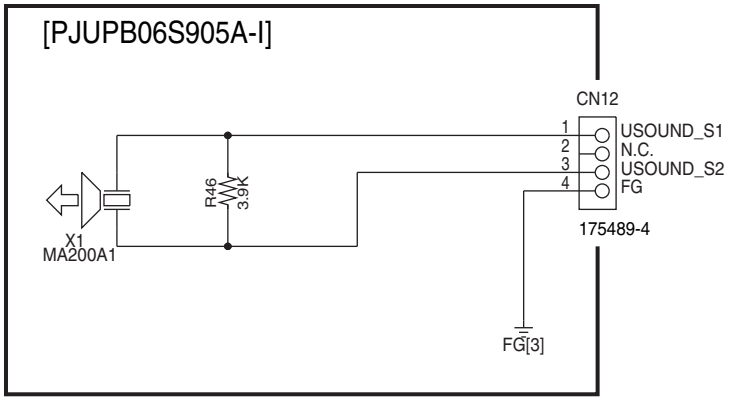
POST IMPRINTER DOOR Board

[PJUPB06S905A-H]

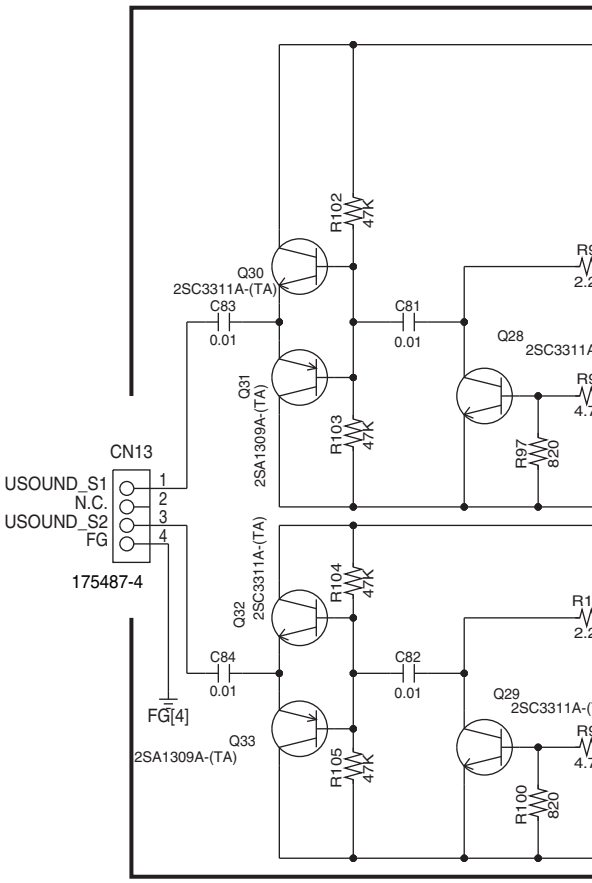


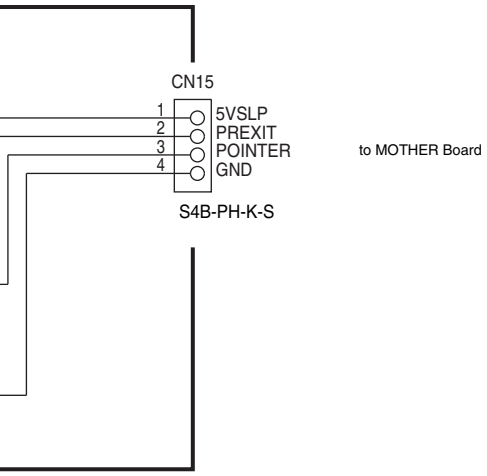
DOUBLE FEED DETECTOR [G] Board

[PJUPB06S905A-I]

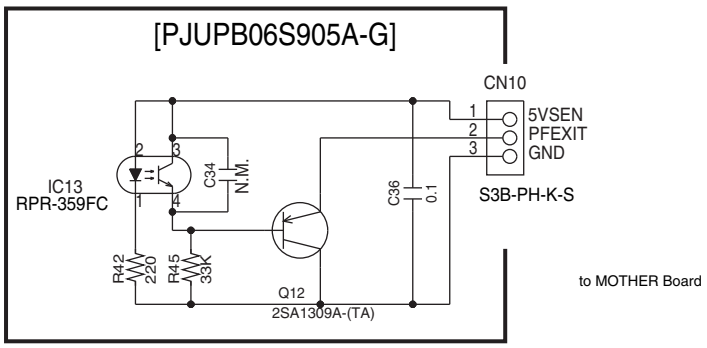


RELAY [LOWER] Board

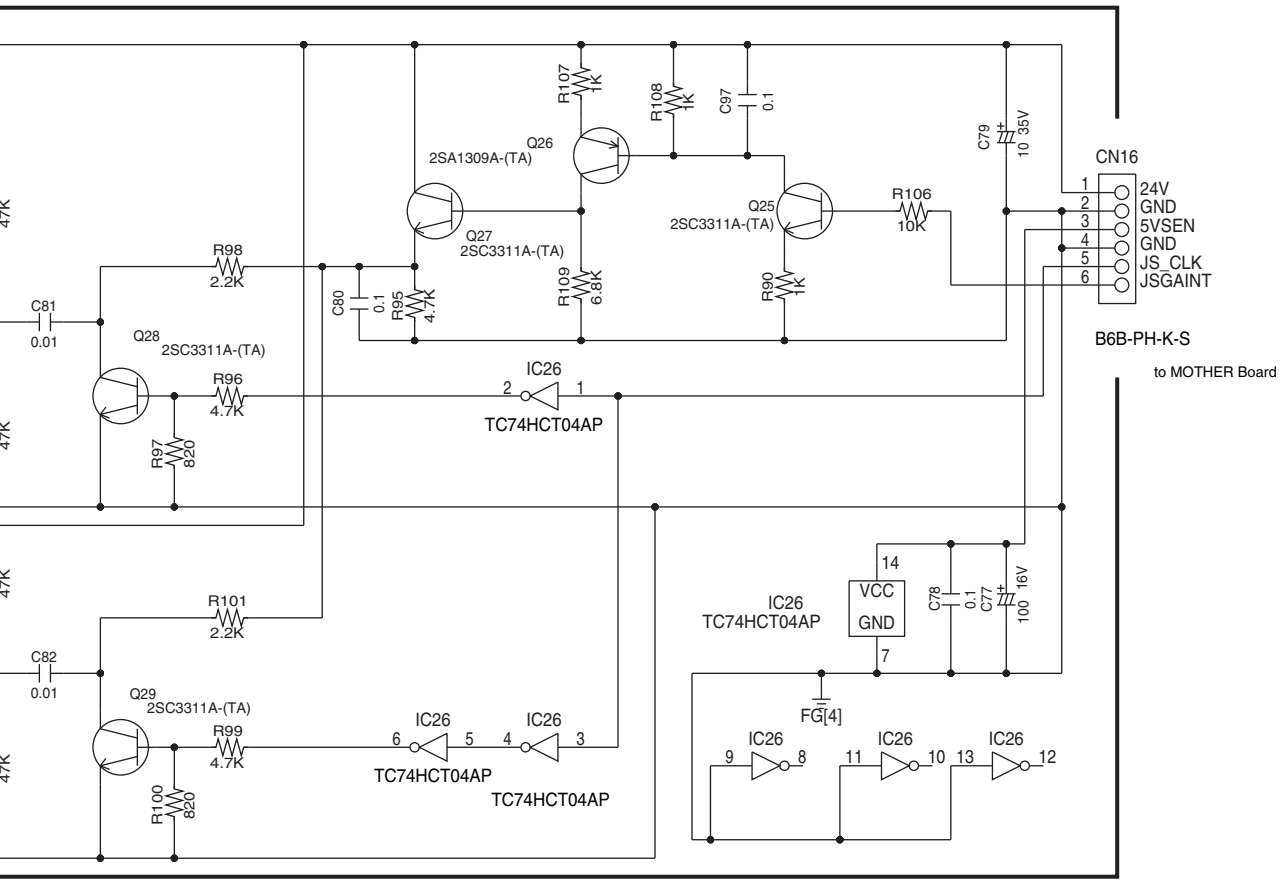




EXIT [FRONT] Board



VER] Board [PJUPB0SS905A-J]



(PANEL, SENSOR Boards)

KV-SS905C

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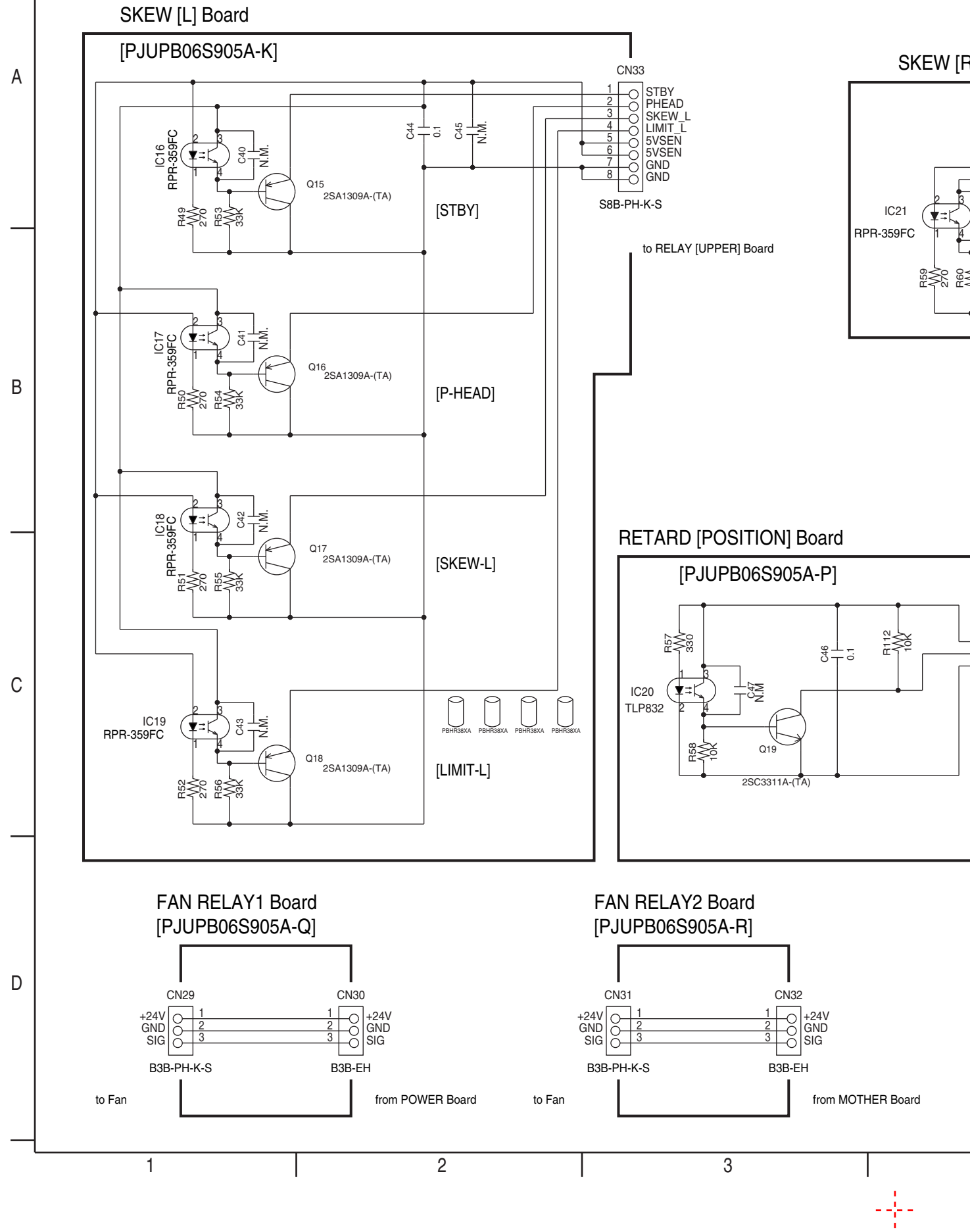
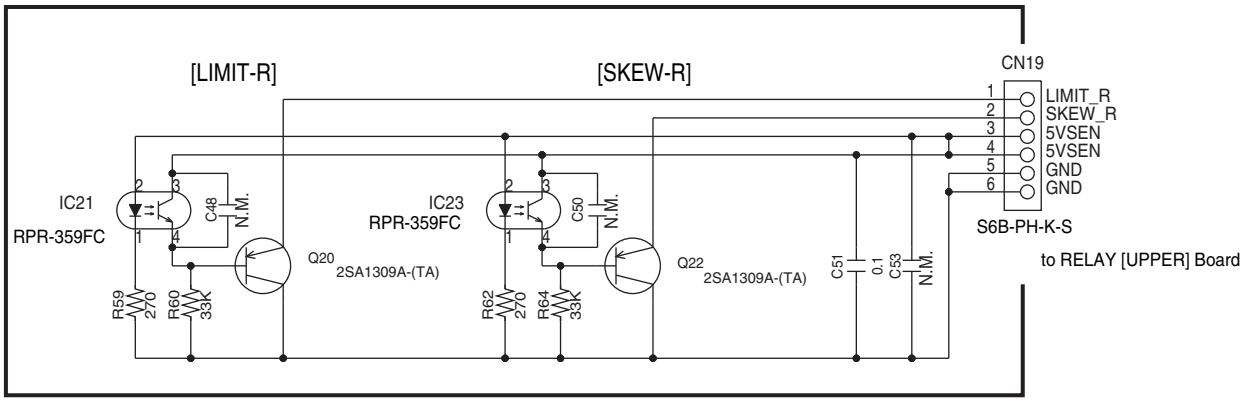
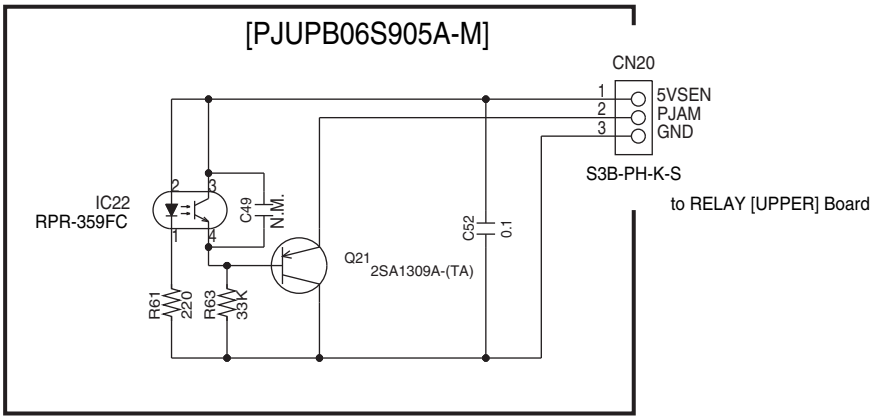

SKEW [L] Board
[PJUPB06S905A-K]
CN33
1 STBY
2 PHEAD
3 SKEW_L
4 LIMIT_L
5 5VSEN
6 5VSEN
7 GND
8 GND
S8B-PH-K-S
to RELAY [UPPER] Board
IC16 RPR-359FC
C40 N.M.
Q15 2SA1309A-(TA)
R49 270
R53 33K
C44 0.1
C45 N.M.
[STBY]
IC17 RPR-359FC
C41 N.M.
Q16 2SA1309A-(TA)
R50 270
R54 33K
[P-HEAD]
IC18 RPR-359FC
C42 N.M.
Q17 2SA1309A-(TA)
R51 270
R55 33K
[SKEW-L]
IC19 RPR-359FC
C43 N.M.
Q18 2SA1309A-(TA)
R52 270
R56 33K
[LIMIT-L]
PBHR38XA
PBHR38XA
PBHR38XA
PBHR38XA
SKEW [R
IC21
RPR-359FC
R59 270
R60
RETARD [POSITION] Board
[PJUPB06S905A-P]
R57 330
IC20 TLP832
C47 N.M
C46 0.1
R112 10K
R58 10K
Q19
2SC3311A-(TA)
FAN RELAY1 Board
[PJUPB06S905A-Q]
CN29
CN30
+24V
GND
SIG
B3B-PH-K-S
B3B-EH
to Fan
from POWER Board
FAN RELAY2 Board
[PJUPB06S905A-R]
CN31
CN32
+24V
GND
SIG
B3B-PH-K-S
B3B-EH
to Fan
from MOTHER Board
A
B
C
D
1
2
3

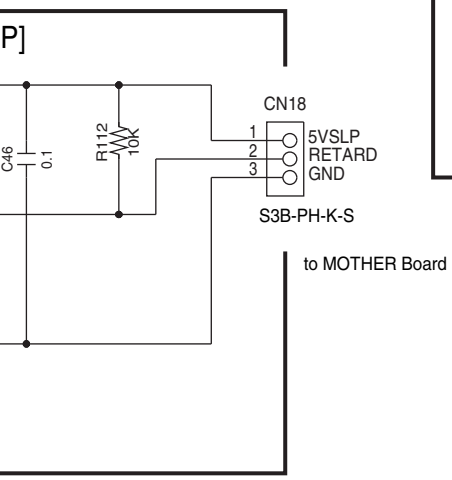
SKEW [R] Board [PJUPB06S905A-L]



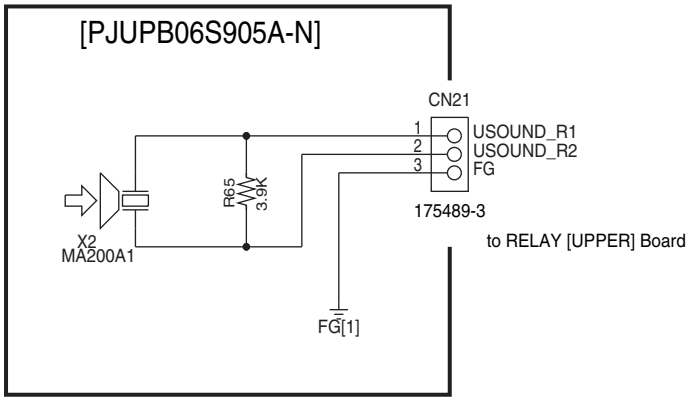
JAM Board



ard



DOUBLE FEED DETECTOR [R] Board



4V
D
G

om MOTHER Board

(PANEL, SENSOR Boards)

KV-SS905C

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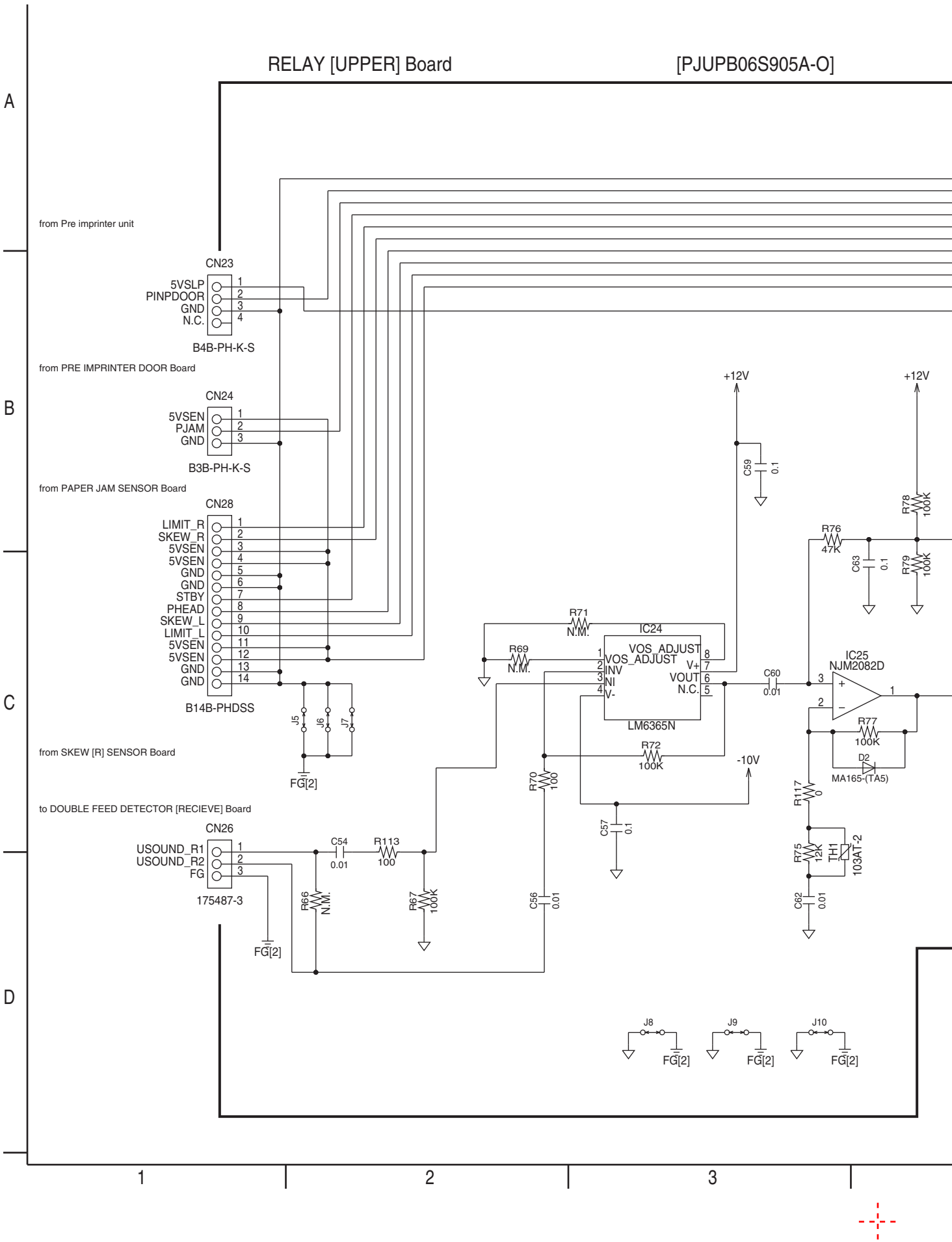
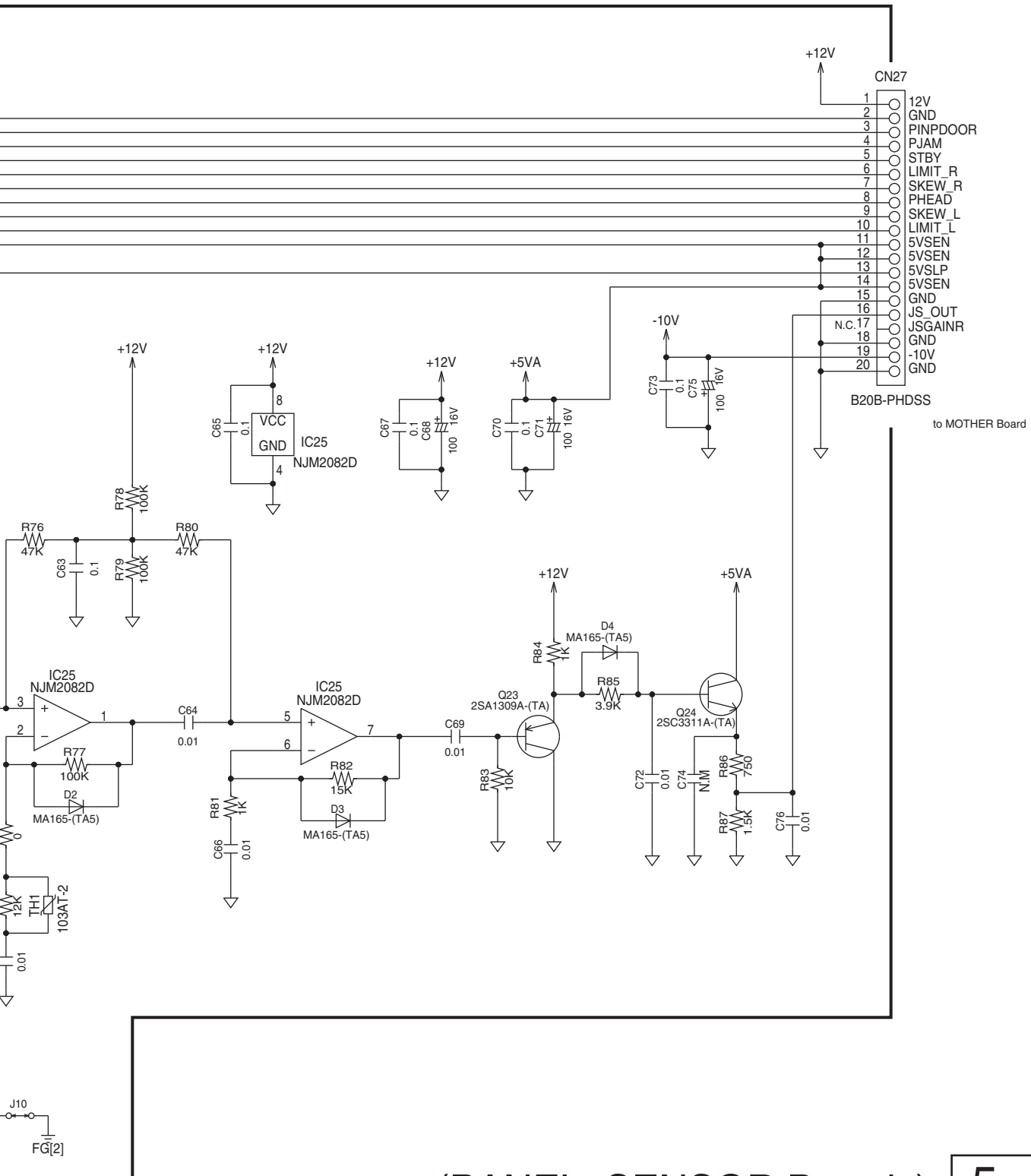

RELAY [UPPER] Board
[PJUPB06S905A-O]
from Pre imprinter unit
CN23
5VSLP
PINPDOOR
GND
N.C.
B4B-PH-K-S
from PRE IMPRINTER DOOR Board
CN24
5VSEN
PJAM
GND
B3B-PH-K-S
from PAPER JAM SENSOR Board
CN28
LIMIT_R
SKEW_R
5VSEN
5VSEN
GND
GND
STBY
PHEAD
SKEW_L
LIMIT_L
5VSEN
5VSEN
GND
GND
B14B-PHDSS
J5
J6
J7
FG[2]
from SKEW [R] SENSOR Board
to DOUBLE FEED DETECTOR [RECIEVE] Board
CN26
USOUND_R1
USOUND_R2
FG
175487-3
C54
0.01
R113
100
R66
N.M.
R67
100K
FG[2]
R71
N.M.
R69
N.M.
IC24
VOS_ADJUST
VOS_ADJUST
INV
NI
V-
V+
VOUT
N.C.
LM6365N
+12V
C59
0.1
C60
0.01
R72
100K
-10V
C57
0.1
R70
100
C56
0.01
R76
47K
C63
0.1
R78
100K
R79
100K
IC25
NJM2082D
R77
100K
D2
MA165-(TA5)
R117
0
R75
12K
TH1
103AT-2
C62
0.01
J8
J9
J10
FG[2]
FG[2]
FG[2]
A
B
C
D
1
2
3

A-O]



(PANEL, SENSOR Boards)

KV-SS905C

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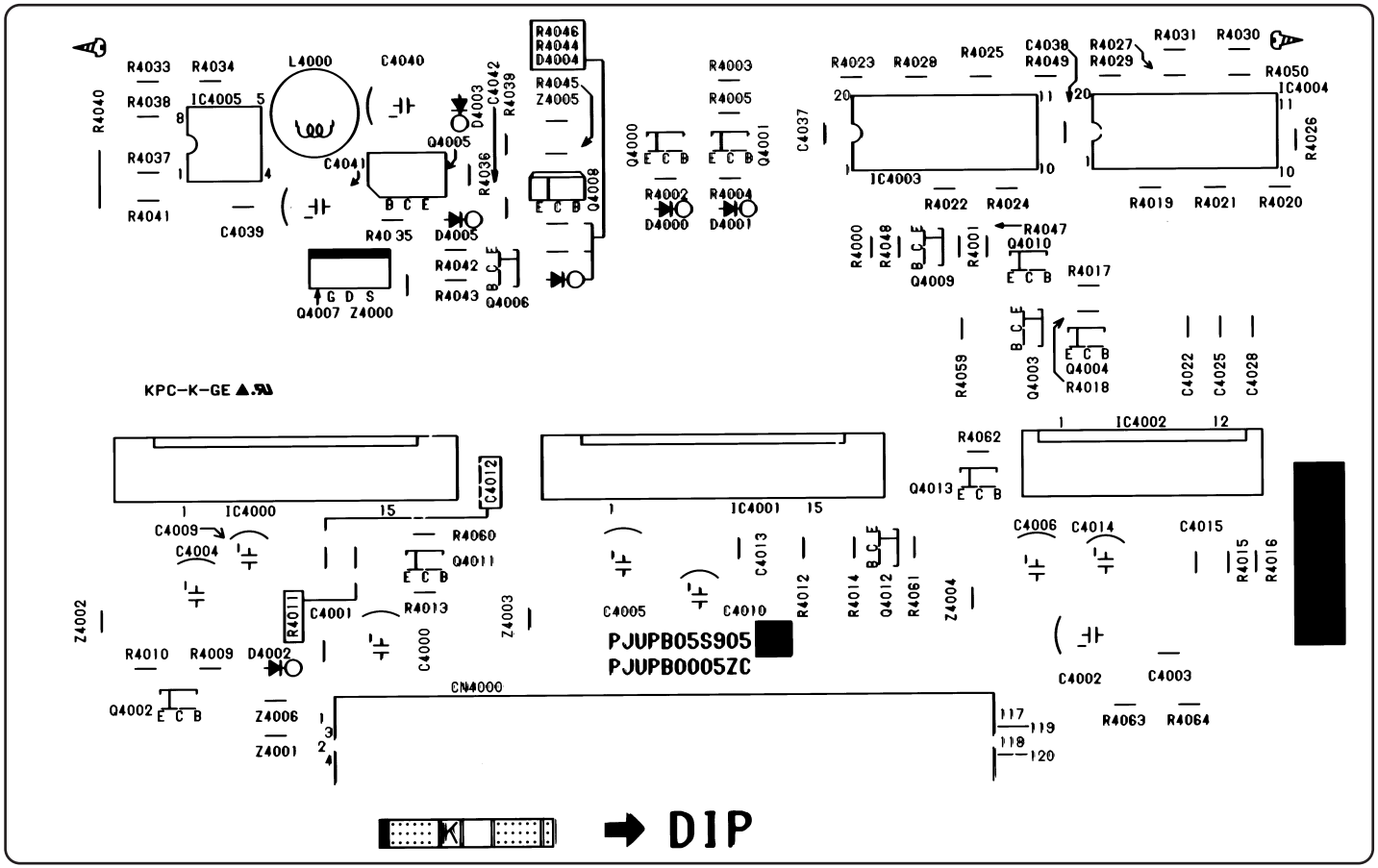
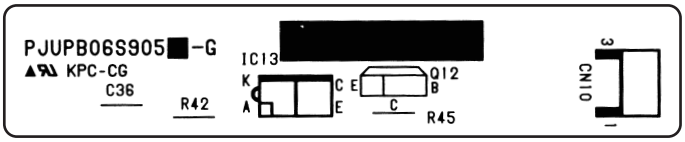
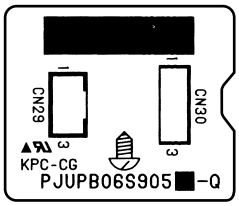
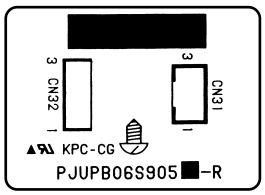
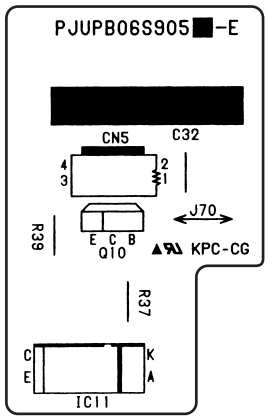
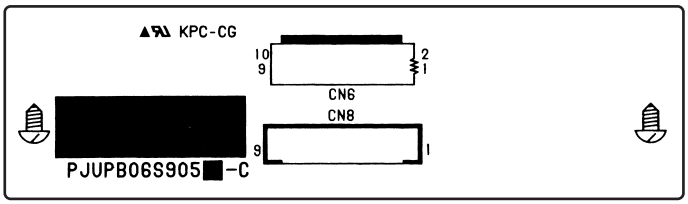

KPC-K-GE
PJUPB05S905
PJUPB0005ZC
DIP

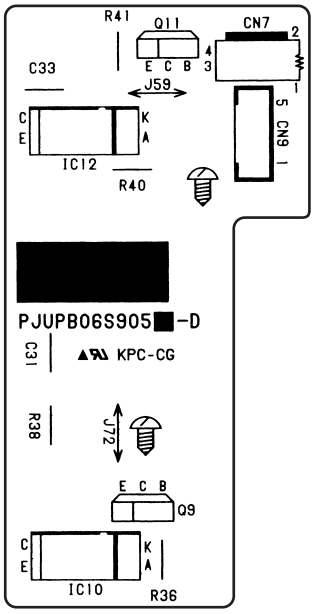

PJUPB06S905■-G
KPC-CG
C36
R42
IC13
K
A
C E
E
Q12
B
C
R45
3
CN10
1

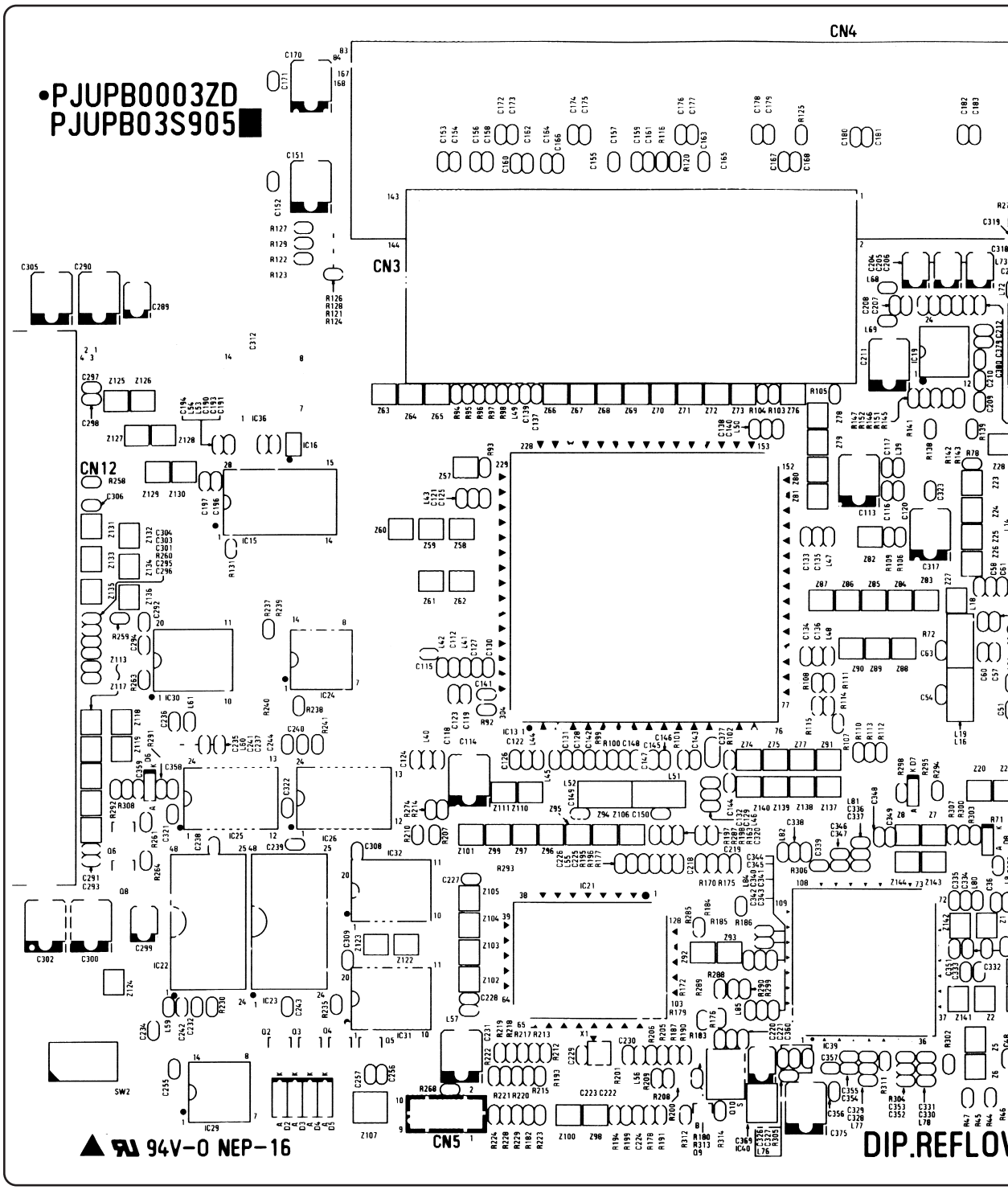

CN29
CN30
KPC-CG
PJUPB06S905■-Q

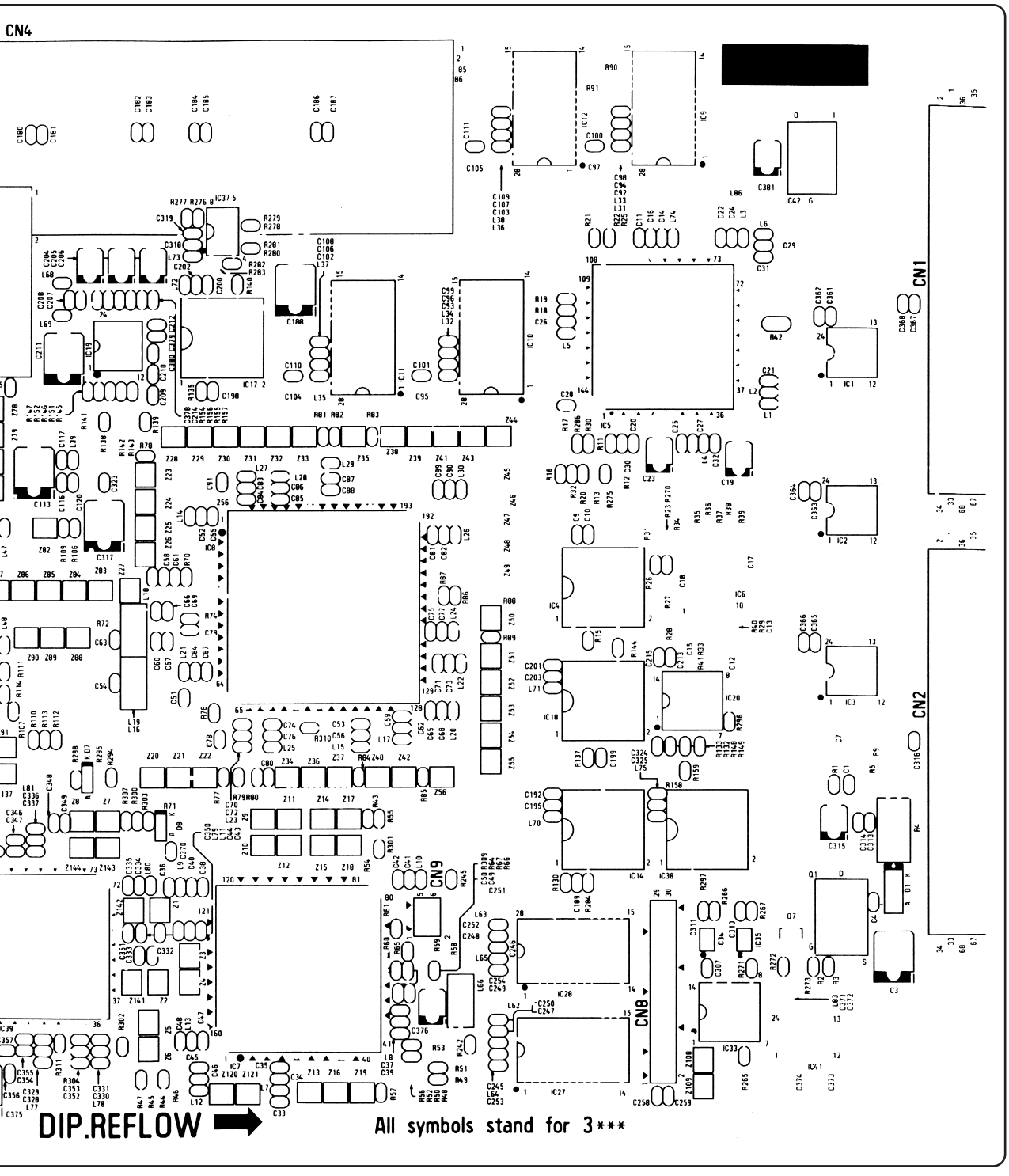

3
CN32
1
3
CN31
1
KPC-CG
PJUPB06S905■-R

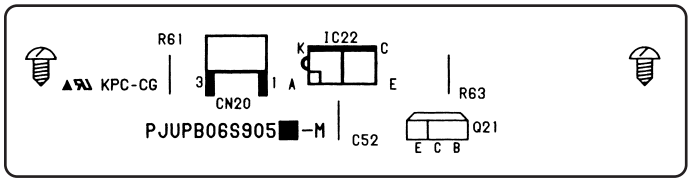

PJUPB06S905■-E
CN5
C32
4
3
2
1
J70
R39
E C B
Q10
KPC-CG
R37
C
E
K
A
IC11

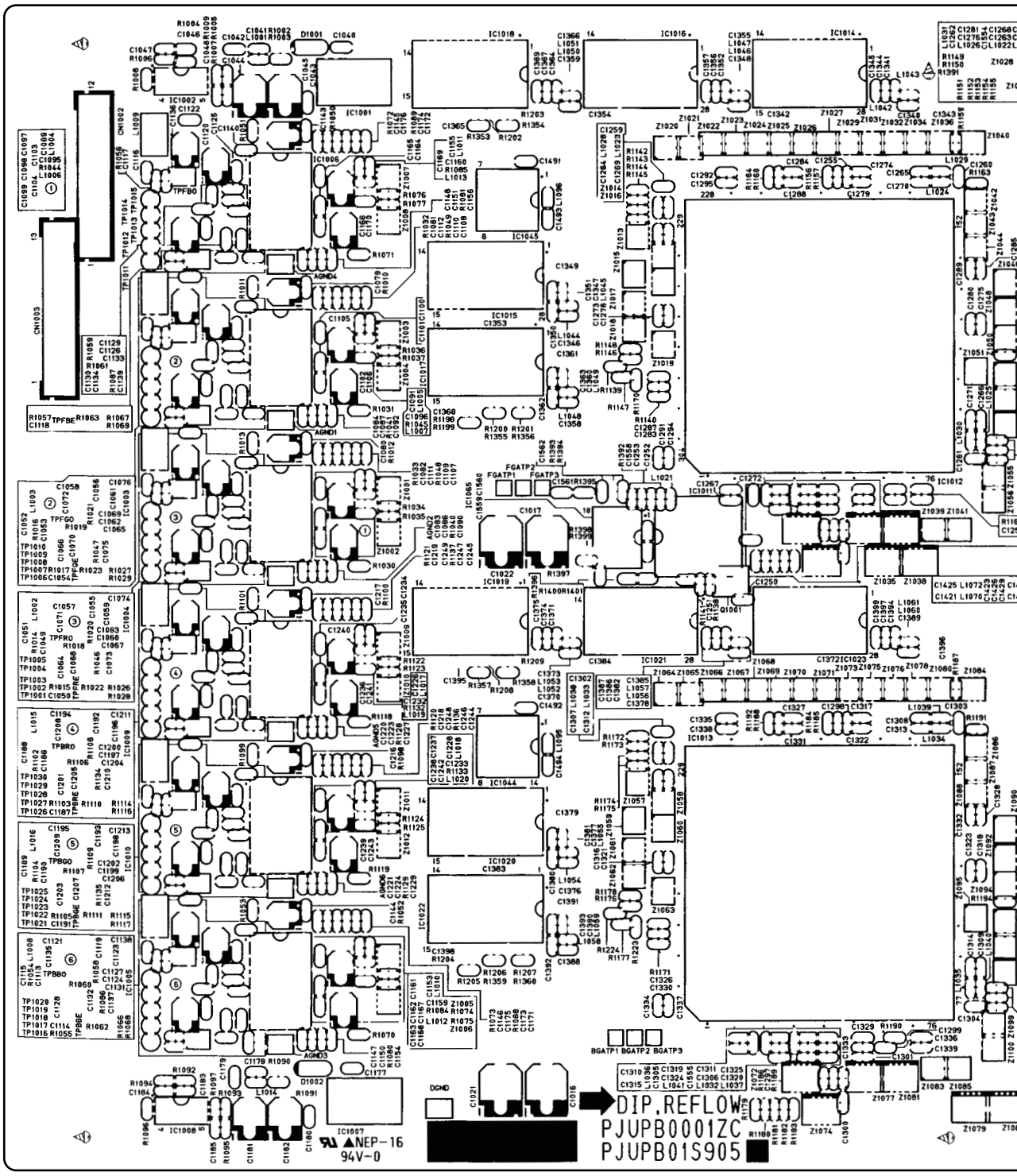

KPC-CG
10
9
2
1
CN6
CN8
9
1
PJUPB06S905■-C

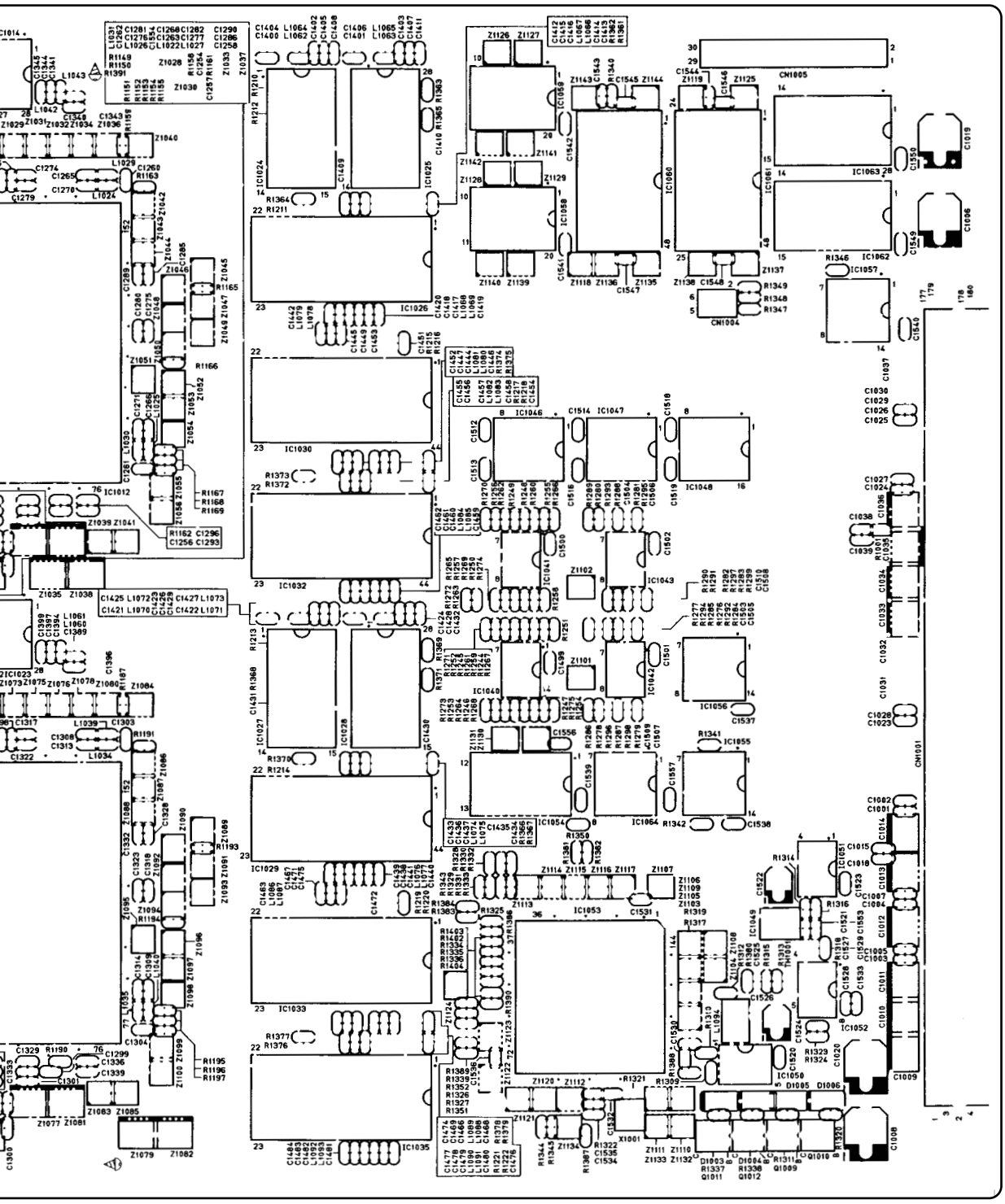

R41
Q11
E C B
CN7
2
4
3
1
C33
J59
C
E
K
A
IC12
R40
5 CN9 1
PJUPB06S905■-D
C31
KPC-CG
R38
J72
E C B
Q9
C
E
K
A
IC10
R36

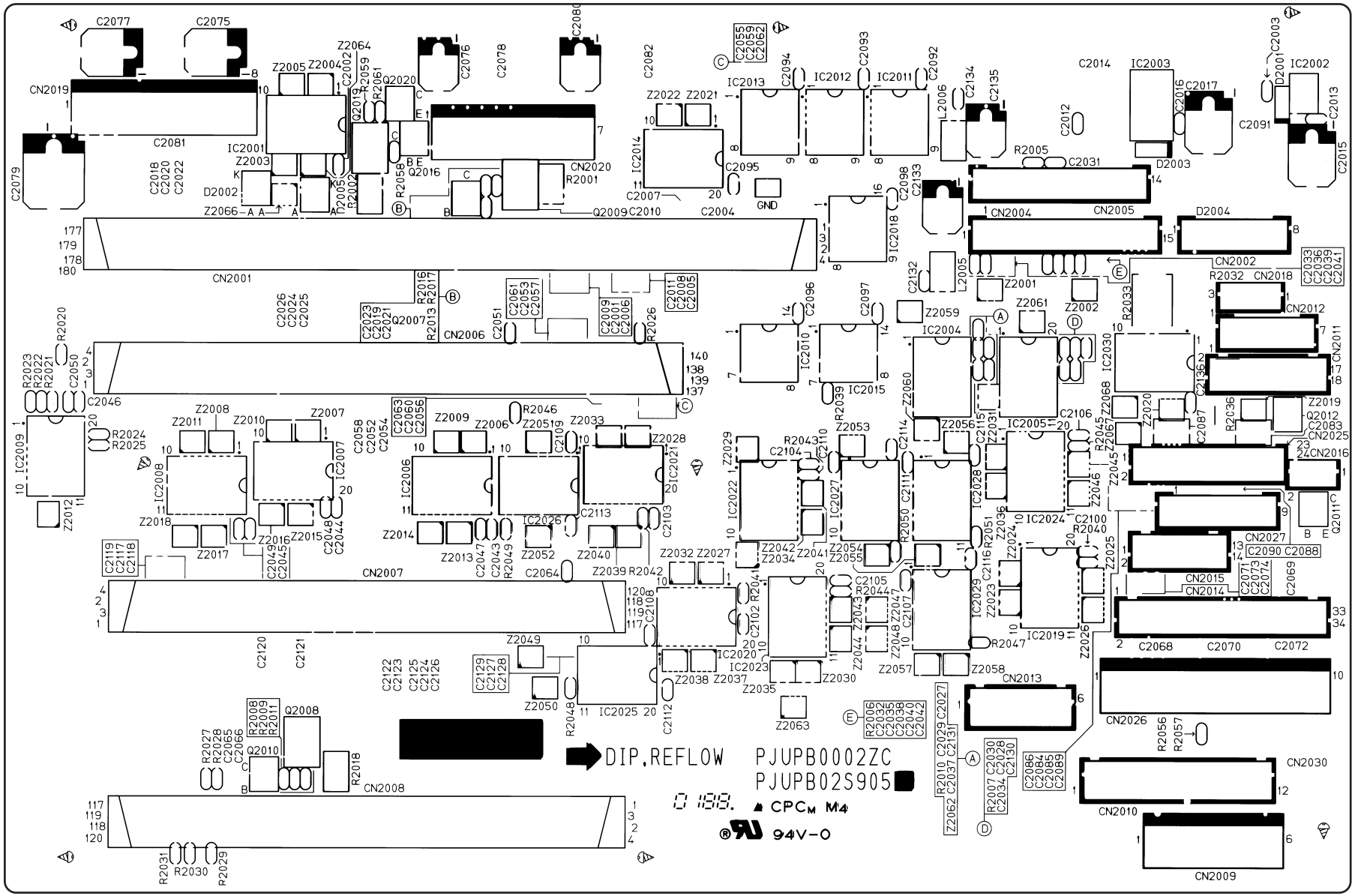

•PJUPB0003ZD
PJUPB03S905
CN4
CN3
CN12
CN5
SW2
94V-0 NEP-16
DIP.REFLO

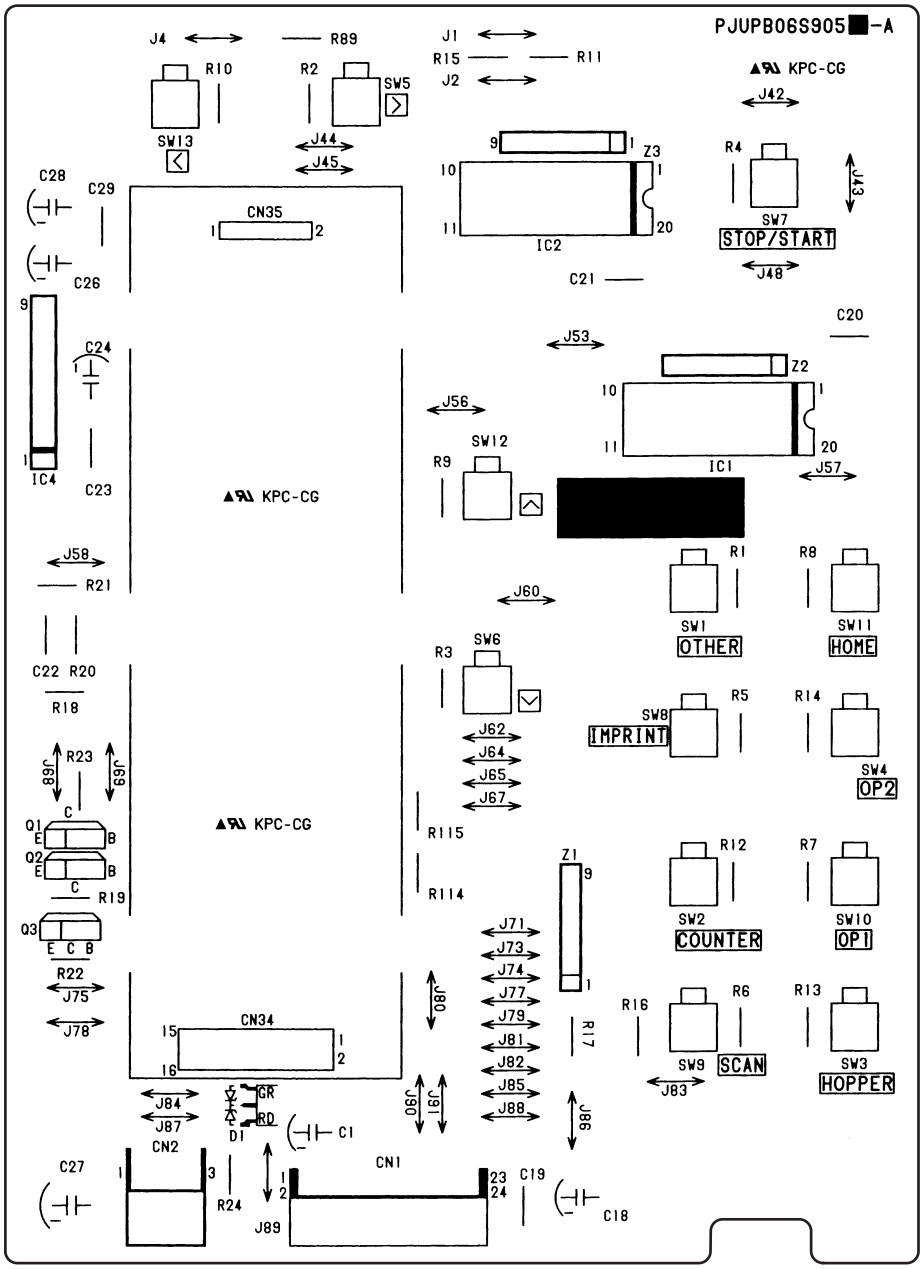

CN4
CN1
CN2
CN9
CN8
DIP.REFLOW
All symbols stand for 3***

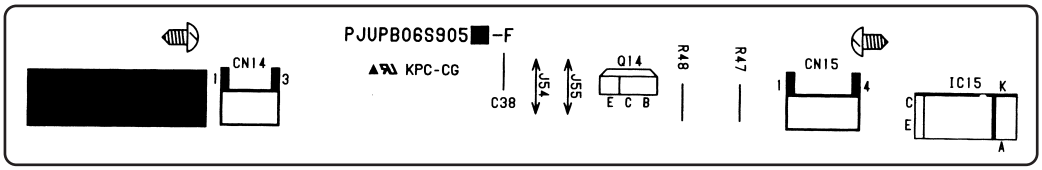

R61
IC22
K
C
KPC-CG
3
1
A
E
R63
CN20
PJUPB06S905■-M
C52
Q21
E C B

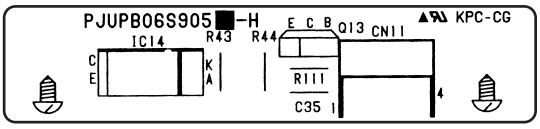

DIP,REFLOW
PJUPB0001ZC
PJUPB01S905
▲NEP-16
94V-0




DIP.REFLOW PJUPB0002ZC
PJUPB02S905
CPCM M4
94V-0


PJUPB06S905■-A
KPC-CG
KPC-CG
KPC-CG
J4
R89
J1
R15
R11
J2
R10
R2
SW5
SW13
J44
J45
J42
R4
J43
SW7
STOP/START
J48
C28
C29
C26
CN35
IC2
Z3
C21
C20
J53
Z2
IC1
J56
SW12
R9
J57
C24
C23
IC4
J58
R21
C22
R20
R18
J60
R1
R8
SW1
OTHER
SW11
HOME
R3
SW6
J62
J64
J65
J67
SW8
IMPRINT
R5
R14
SW4
OP2
J68
R23
J69
Q1
Q2
R19
R115
R114
Z1
R12
R7
SW2
COUNTER
SW10
OPI
Q3
R22
J75
J78
J71
J73
J74
J77
J79
J81
J82
J85
J88
J80
R17
R16
R6
R13
SW9
SCAN
SW3
HOPPER
J83
CN34
J84
J87
CN2
D1
GR
RD
C1
J90
J91
J86
C27
R24
CN1
J89
C19
C18


PJUPB06S905■-F
KPC-CG
CN14
1
3
C38
J54
J55
Q14
E C B
R48
R47
CN15
1
4
IC15
K
C
E
A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R44
C
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C35
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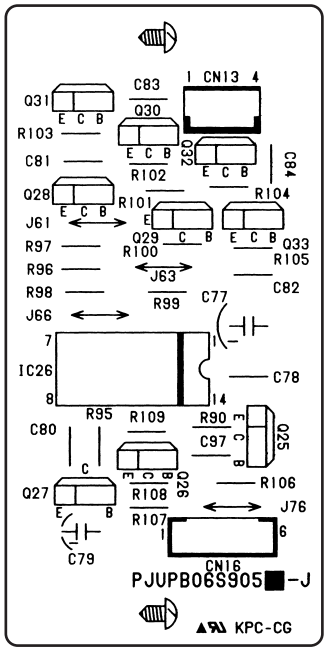
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Q30
R103
E C B
Q32
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C84
C81
R102
Q28
E C B
R101
R104
J61
E
Q29 C B
E C B
Q33
R97
R100
R105
R96
J63
C82
R98
R99
C77
J66
7
1
IC26
C78
8
14
R95
R109
R90
E
C
B
Q25
C80
C97
C
E C B
Q26
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R108
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CN16
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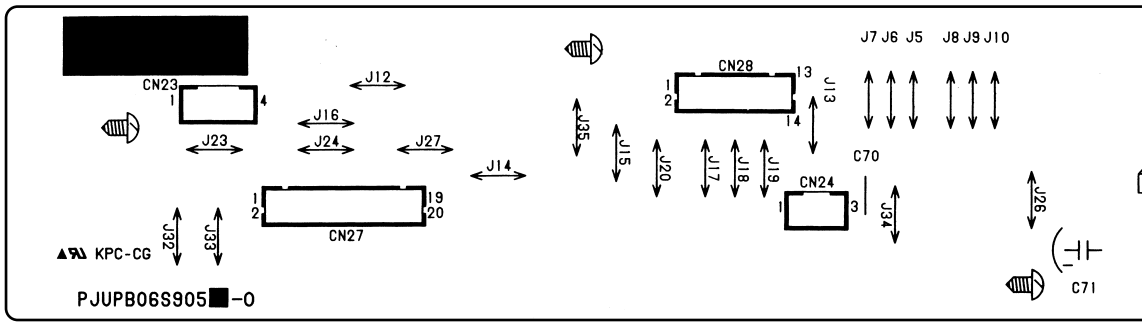
KPC-CG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CN27
CN28
CN24
J12
J16
J23
J24
J27
J14
J35
J15
J20
J17
J18
J19
J13
J7 J6 J5
J8 J9 J10
C70
J26
J34
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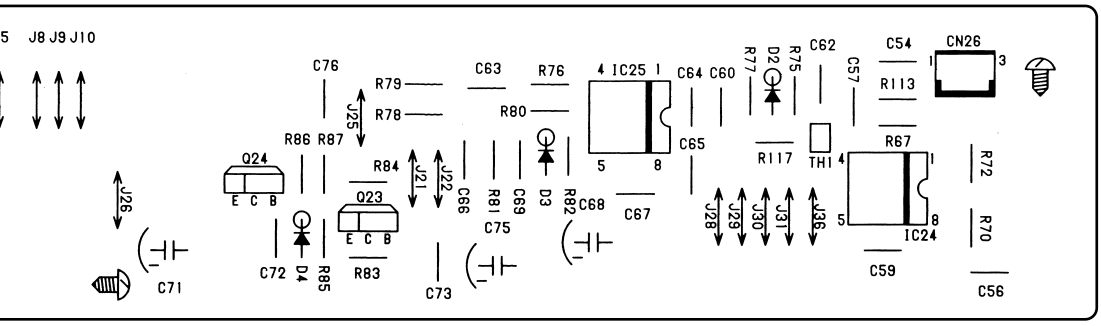
C71
KPC-CG
PJUPB06S905■-0


J8 J9 J10
C76
R79
R78
J25
C63
R76
R80
IC25
C64 C60
C65
R77
D2
R75
C62
C54
CN26
C57
R113
R67
R117
TH1
R72
R70
IC24
C59
C56
Q24
R86 R87
E C B
J26
C71
Q23
R84
J21
J22
C66
R81
C69
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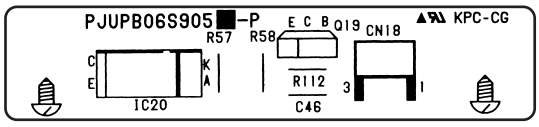
C75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R58
E C B Q19
CN18
C
E
K
A
IC20
R112
C46
3
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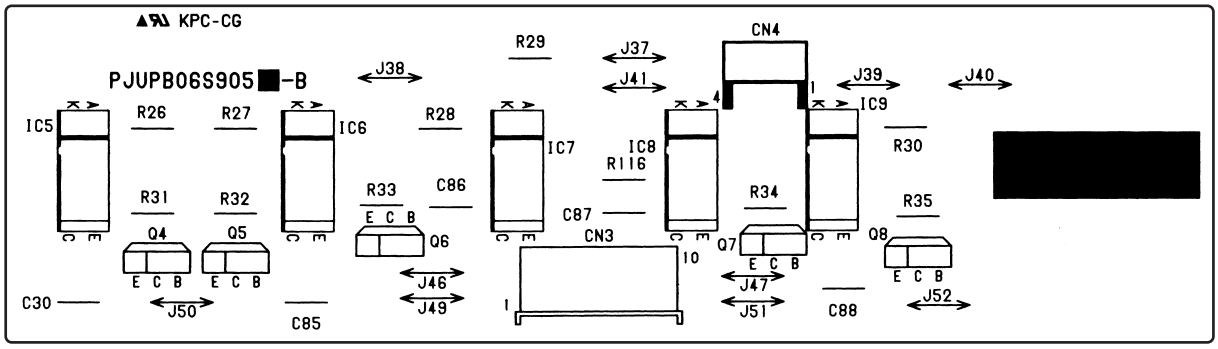
KPC-CG
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J38
R29
J37
J41
CN4
J39
J40
IC5
R26
R27
IC6
R28
IC7
IC8
R116
IC9
R30
R31
R32
R33
C86
C87
R34
R35
Q4
Q5
Q6
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Q8
E C B
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J47
J51
J50
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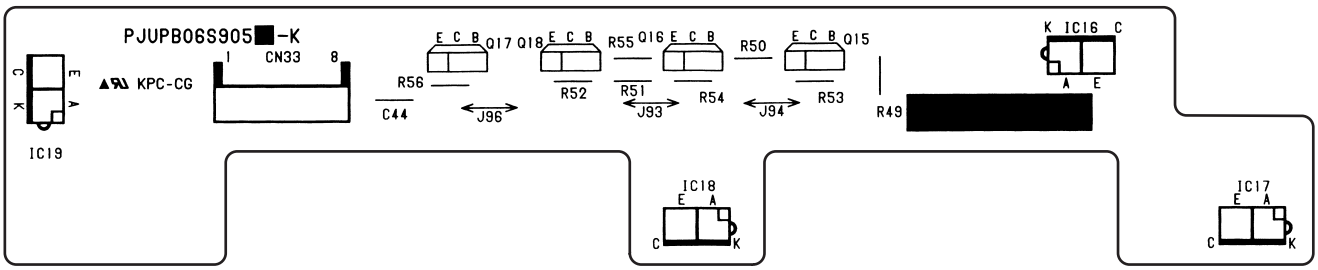
C30
C85
C88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CN33
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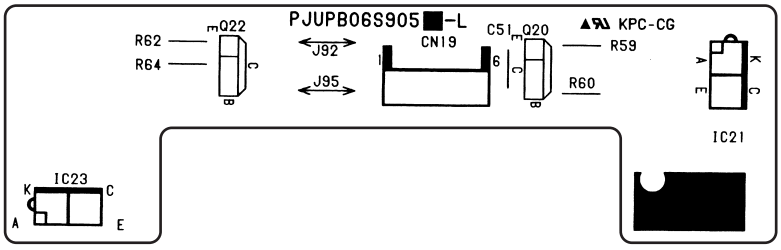
8
KPC-CG
IC19
C
E
K
A
E C B Q17
Q18
E C B
R55
Q16
E C B
R50
E C B Q15
R56
C44
J96
R52
R51
J93
R54
J94
R53
R49
K IC16 C
A E
IC18
E A
C K
IC17
E A
C K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KPC-CG
Q22
R62
R64
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J95
CN19
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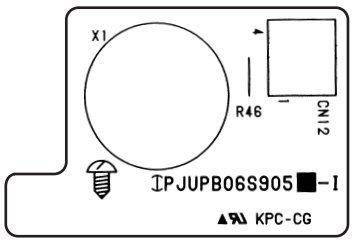
6
C51
Q20
R59
R60
IC21
IC23
K
C
A
E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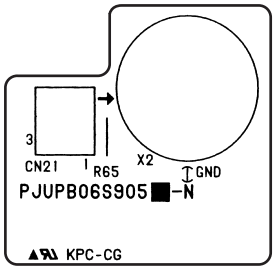
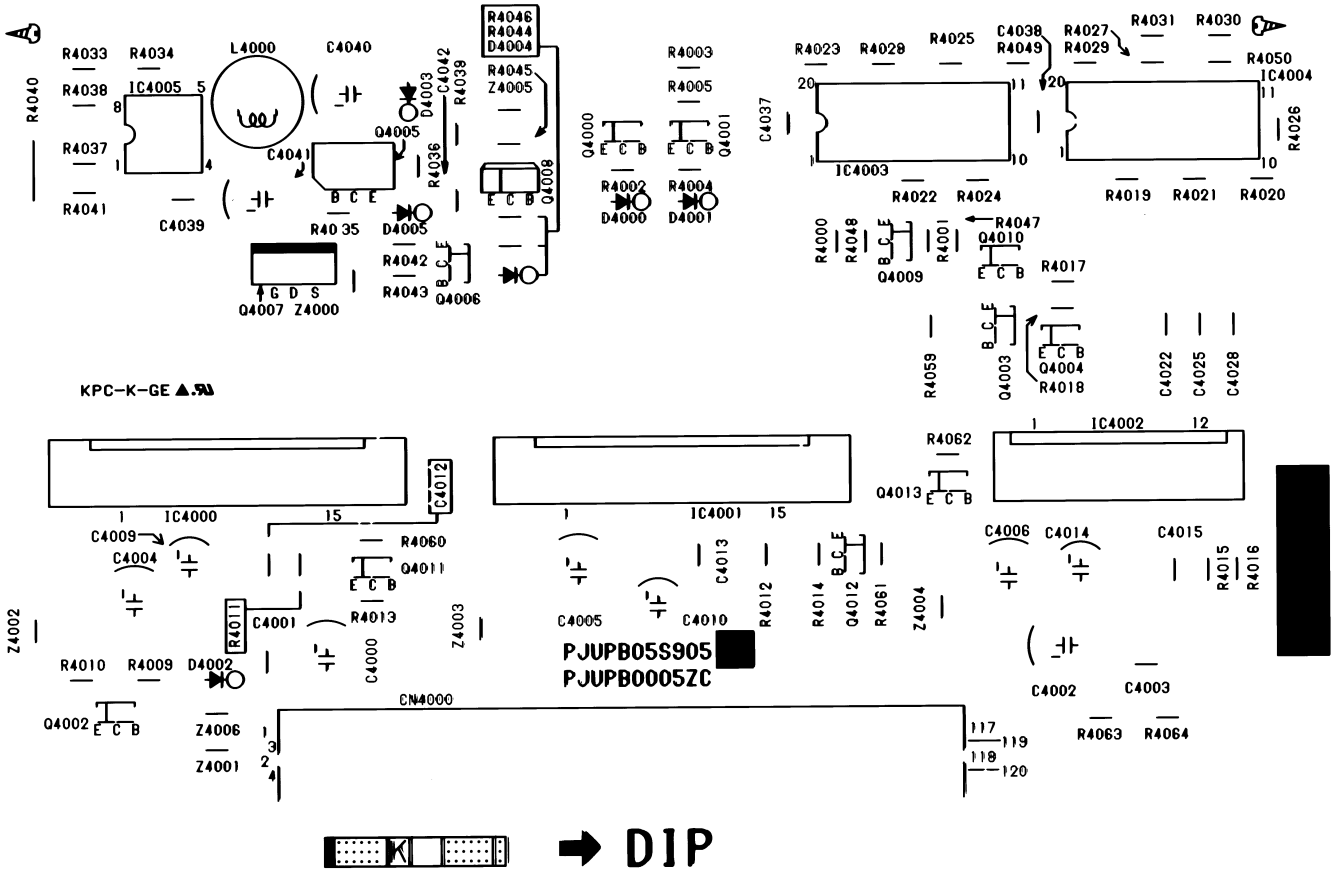
R46
CN12
IPJUPB06S905■-I
KPC-CG


3
CN21
1
R65
X2
GND
PJUPB06S905■-N
KPC-CG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R4034
L4000
C4040
R4038
IC4005
R4037
R4041
C4039
C4041
Q4005
R4036
R4035
D4005
R4042
R4043
Q4006
G D S
Q4007 Z4000
R4040
R4046
R4044
D4004
R4045
Z4005
Q4008
C4042
C4003
D4003
R4039
R4003
R4005
Q4000
Q4001
R4002
R4004
D4000
D4001
R4023
R4028
R4025
C4038
R4049
R4027
R4029
R4031
R4030
R4050
IC4004
C4037
IC4003
R4022
R4024
R4019
R4021
R4020
R4026
R4000
R4048
Q4009
R4001
R4047
Q4010
R4017
Q4004
R4018
R4059
Q4003
C4022
C4025
C4028
KPC-K-GE
IC4000
C4012
C4009
C4004
R4060
Q4011
R4011
C4001
R4013
C4000
Z4002
Z4003
IC4001
C4005
C4010
C4013
R4012
R4014
Q4012
R4061
Z4004
R4062
Q4013
IC4002
C4006
C4014
C4015
R4015
R4016
C4002
C4003
R4063
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Q4002
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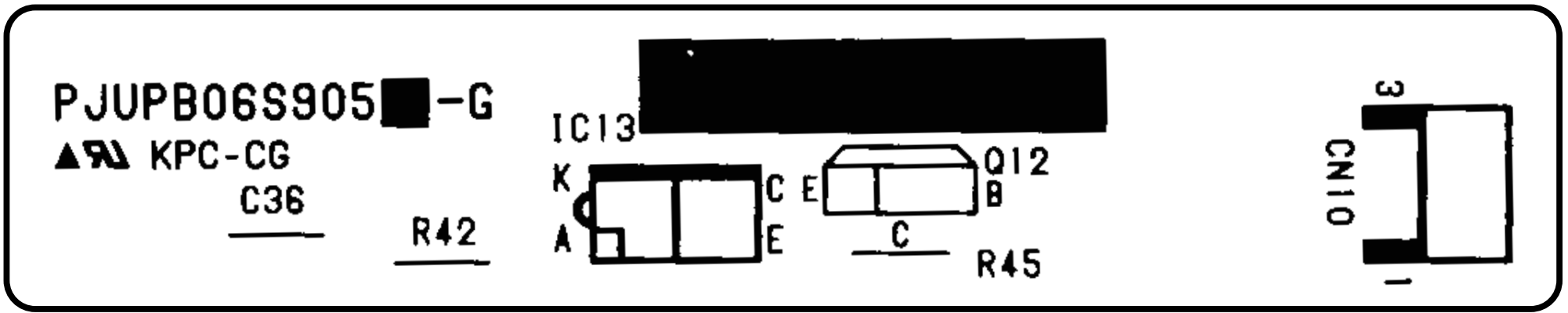
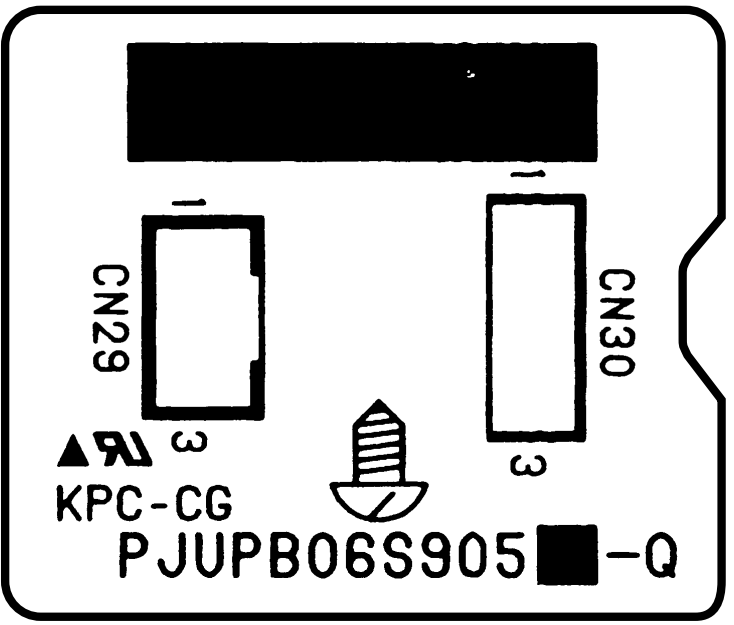
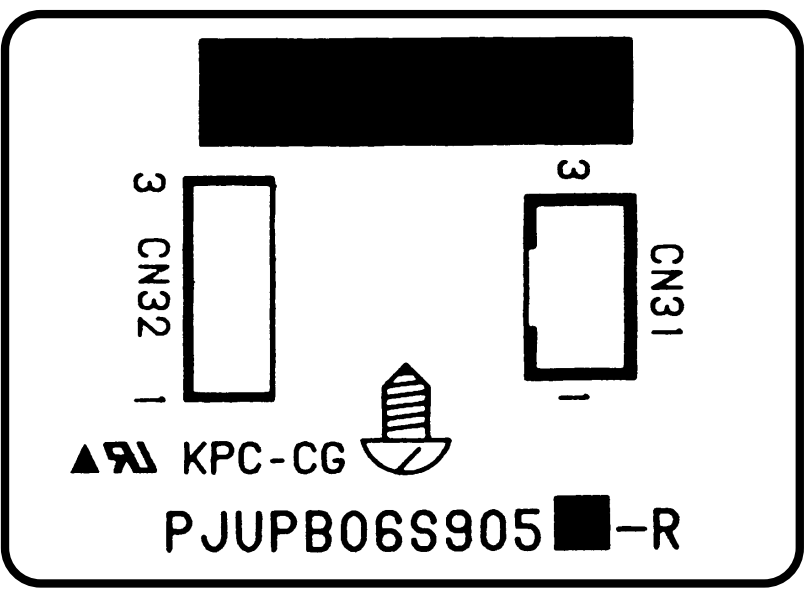
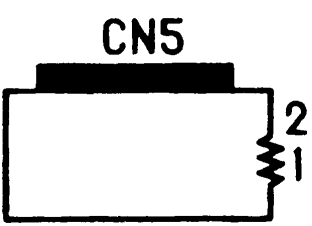
CN4000
DIP

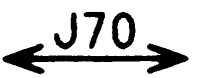

PJUPB06S905[redacted]-G
▲ KPC-CG
C36
R42
IC13
[redacted]
K
A
C
E
Q12
E
B
C
R45
3
CN10
1


1
CN29
3
1
CN30
3
KPC-CG
PJUPB06S905 ■ -Q

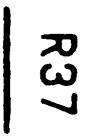

3
CN32
1
3
CN31
1
KPC-CG
PJUPB06S905 ■ -R

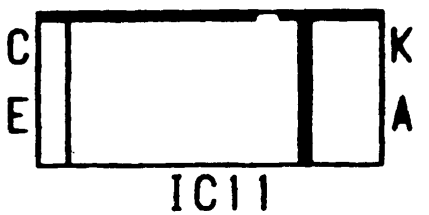
PJUPB06S905[redacted]-E

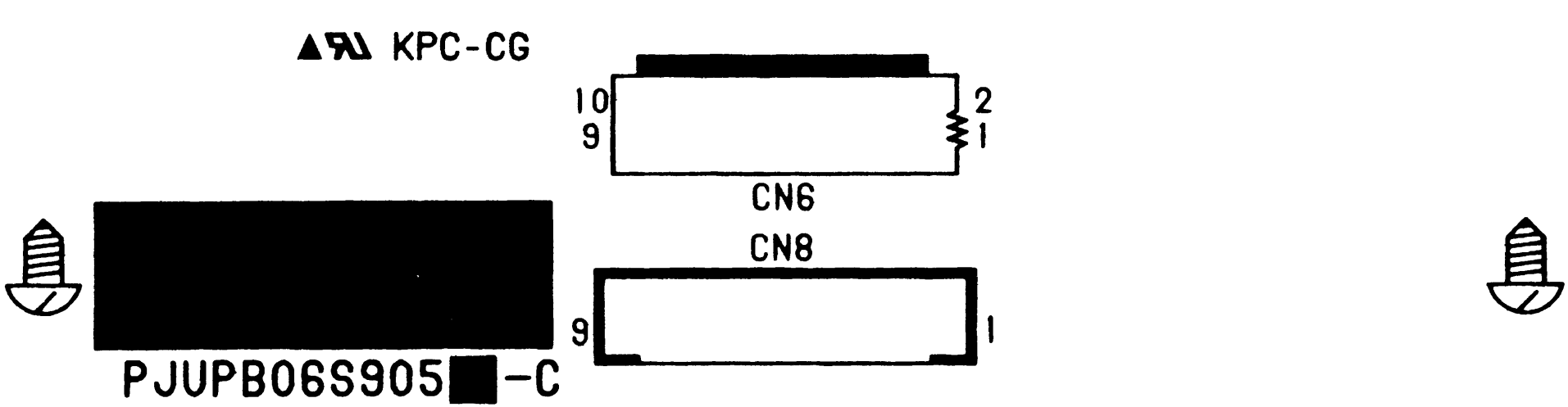


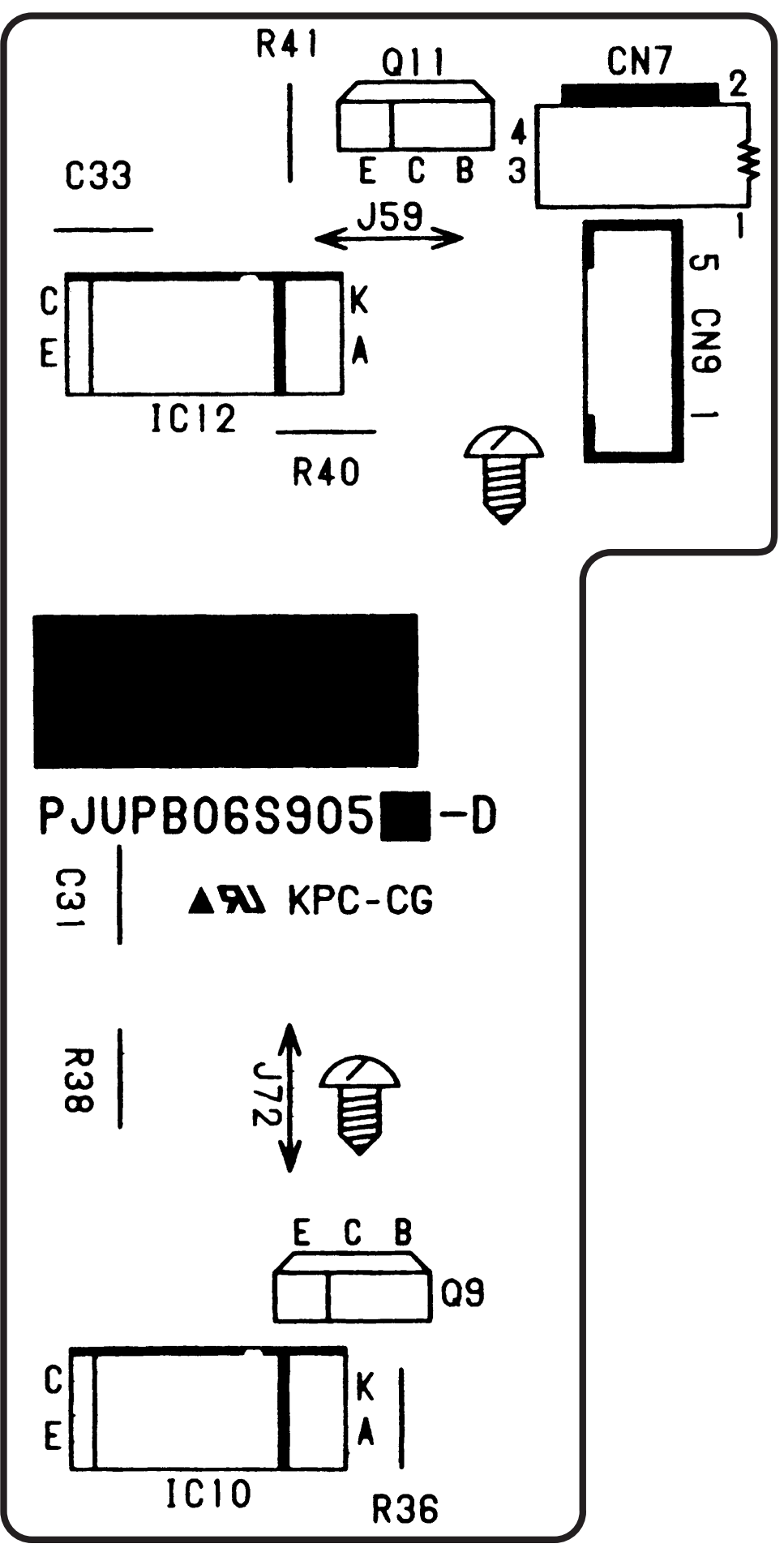


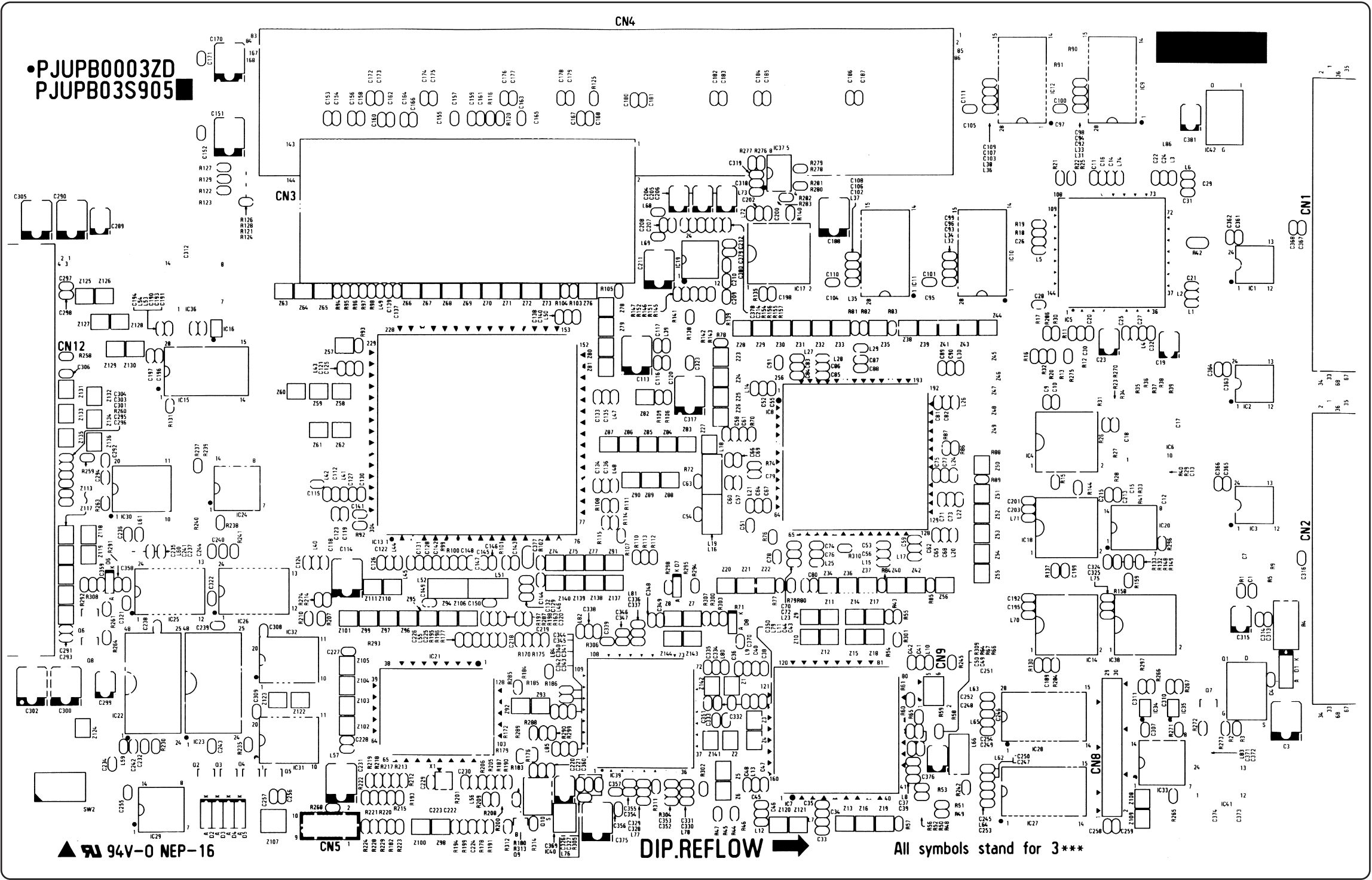
KPC-CG






KPC-CG
10
9
2
1
CN6
CN8
9
1
PJUPB06S905 -C


R41
Q11
E C B
CN7
2
4
3
1
C33
J59
C
E
K
A
IC12
R40
5 CN9 1
PJUPB06S905 -D
C31
KPC-CG
R38
J72
E C B
Q9
C
E
K
A
IC10
R36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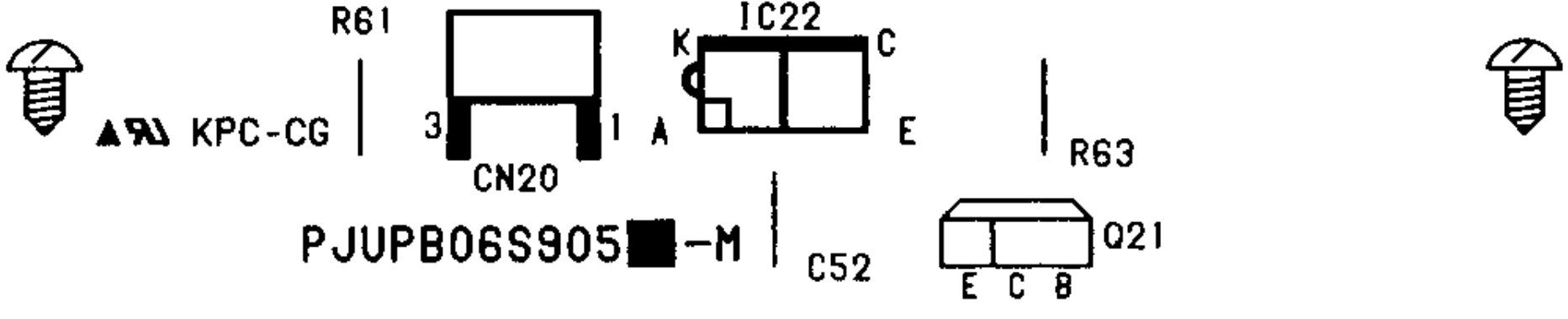
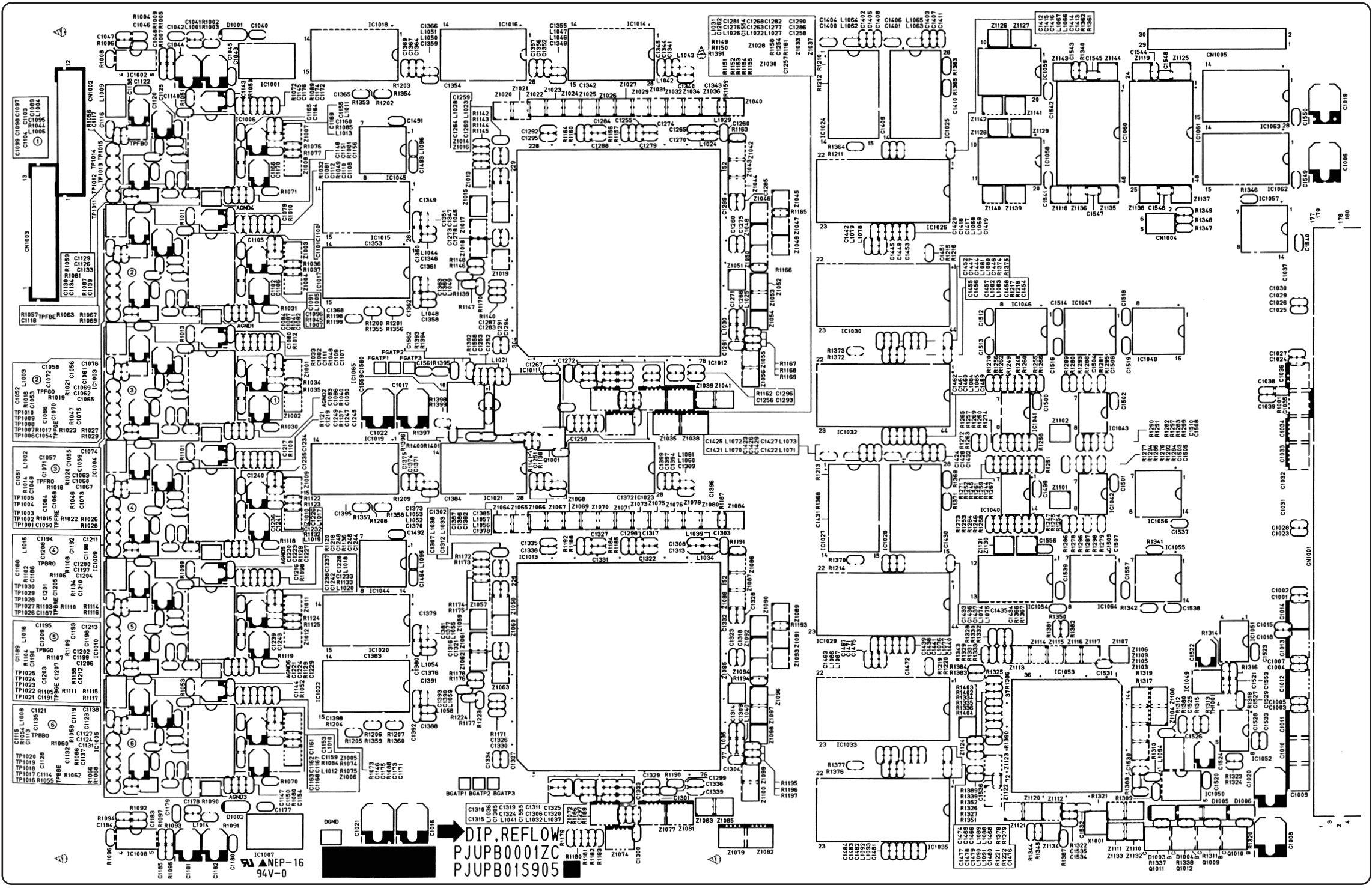
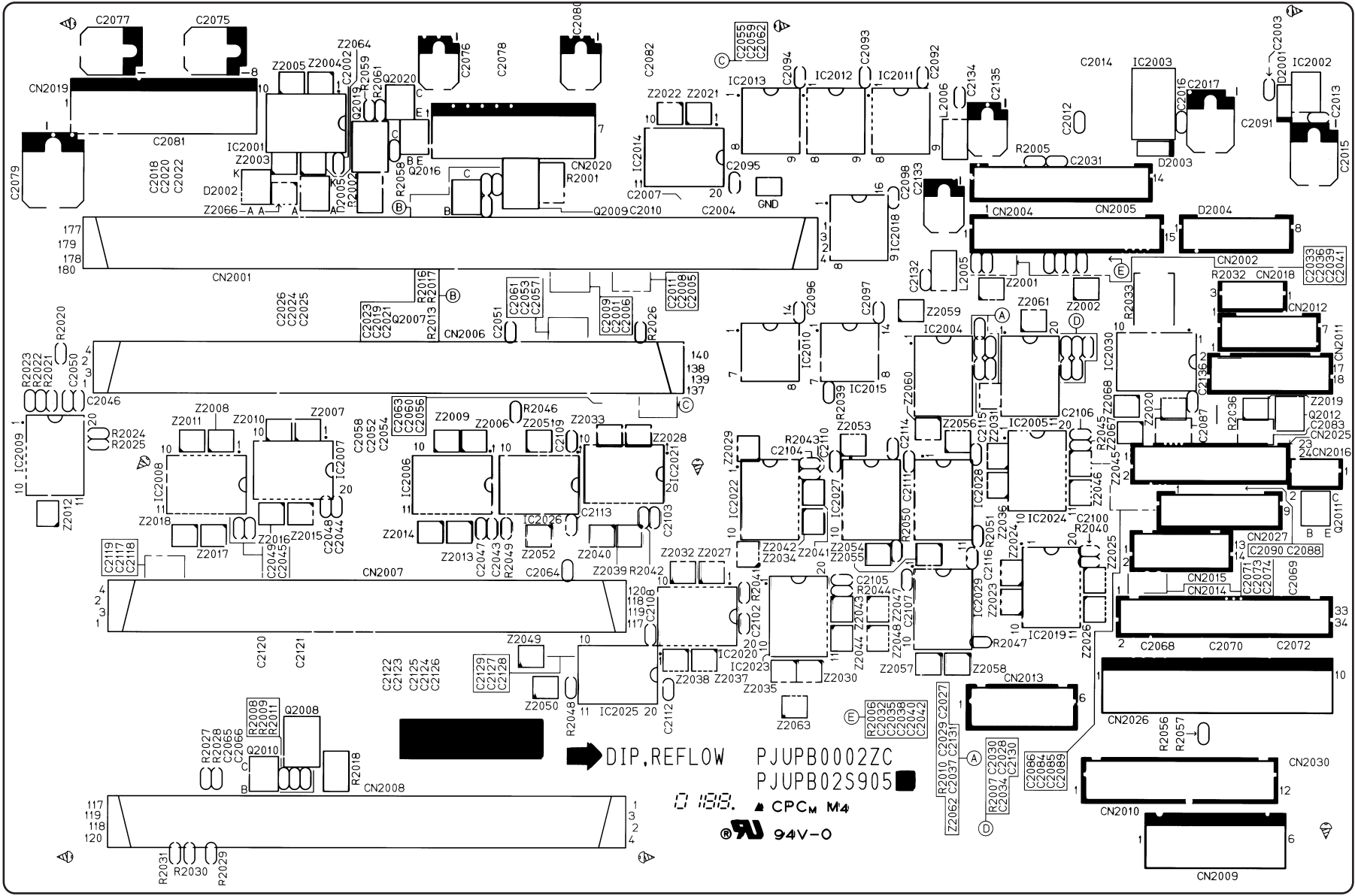
PJUPB03S905
CN4
CN3
CN12
CN1
CN2
CN9
CN8
CN5
IC36
IC16
IC15
IC30
IC24
IC25
IC26
IC32
IC21
IC22
IC23
IC31
IC29
IC13
IC8
IC7
IC39
IC17
IC37
IC10
IC5
IC1
IC2
IC3
IC4
IC6
IC18
IC20
IC14
IC28
IC27
IC33
IC41
IC42
X1
SW2
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
▲ 94V-0 NEP-16
DIP.REFLOW
All symbols stand for 3***


R61
KPC-CG
3
1
CN20
IC22
K
C
A
E
R63
PJUPB06S905■-M
C52
Q21
E C B


DIP,REFLOW
PJUPB0001ZC
PJUPB01S905
▲NEP-16
94V-0


DIP,REFLOW PJUPB0002ZC
PJUPB02S905
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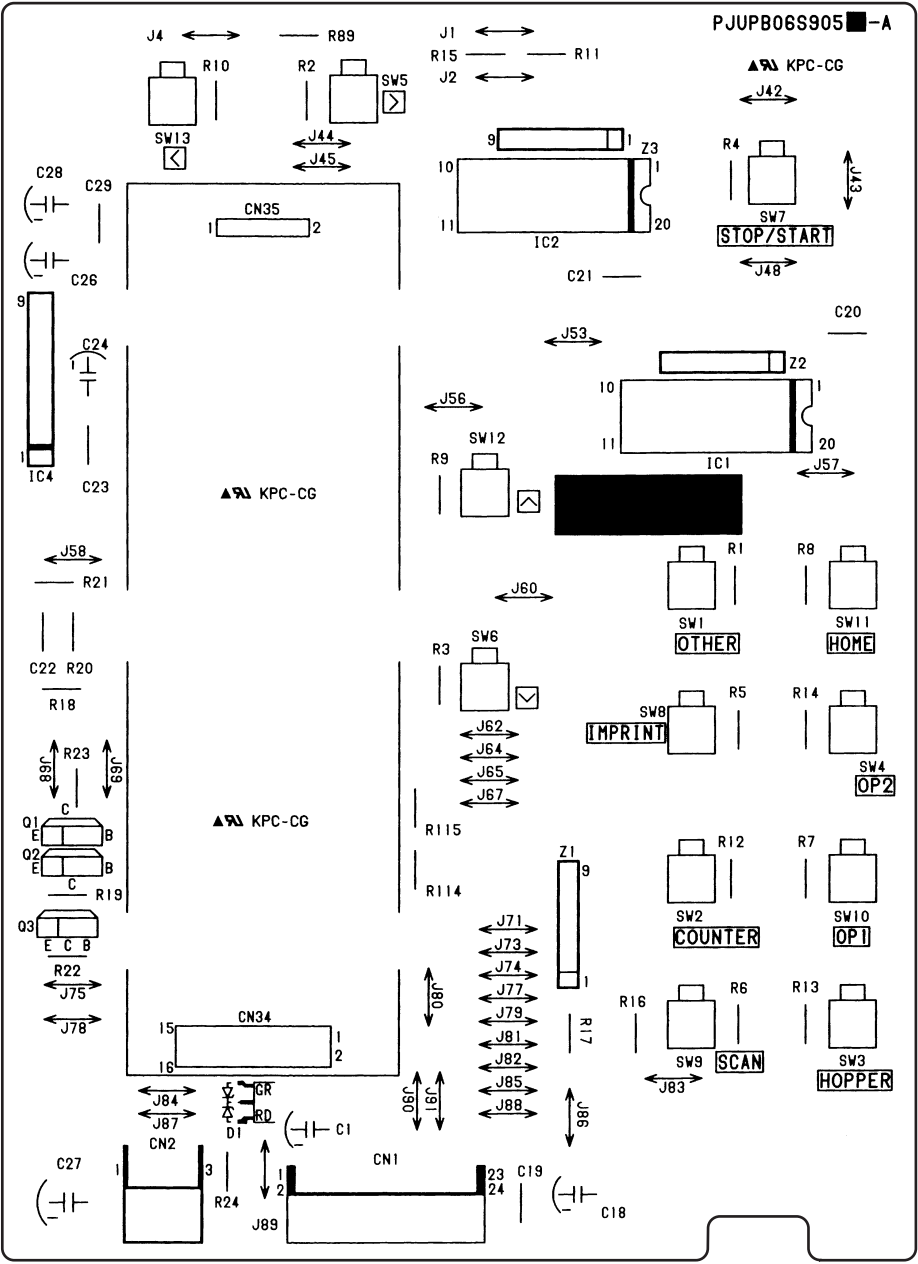
CPCM M4
94V-0


PJUPB06S905■-A
KPC-CG
J4
R89
R10
R2
SW5
SW13
J44
J45
J1
R15
R11
J2
J42
R4
SW7
STOP/START
J43
J48
C28
C29
C26
CN35
IC2
Z3
C21
C20
J53
Z2
IC1
J56
SW12
R9
J57
C24
C23
IC4
J58
R21
J60
R1
SW1
OTHER
R8
SW11
HOME
C22
R20
R18
R3
SW6
J62
J64
J65
J67
SW8
IMPRINT
R5
R14
SW4
OP2
R23
J68
J69
Q1
Q2
Q3
R19
R115
R114
R12
SW2
COUNTER
R7
SW10
OP1
Z1
J71
J73
J74
J77
J79
J81
J82
J85
J88
J80
J91
J90
J86
R16
R6
SW9
SCAN
J83
R13
SW3
HOPPER
R22
J75
J78
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RD
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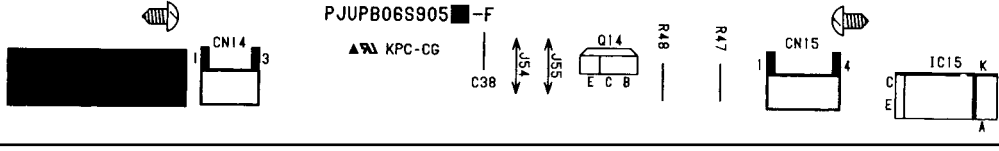
CN2
CN1
C27
R24
J89
C19
C18


CN14
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3
PJUPB06S905■-F
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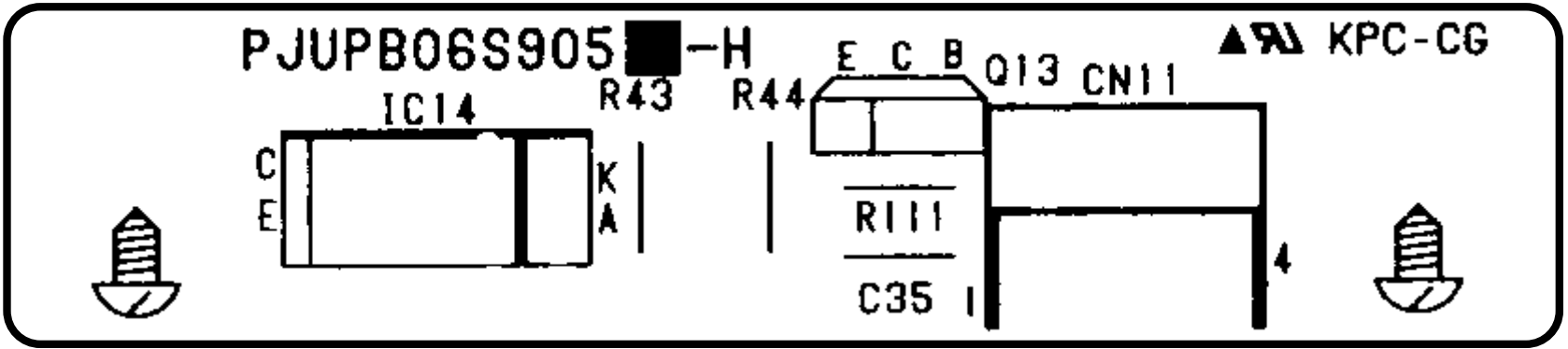
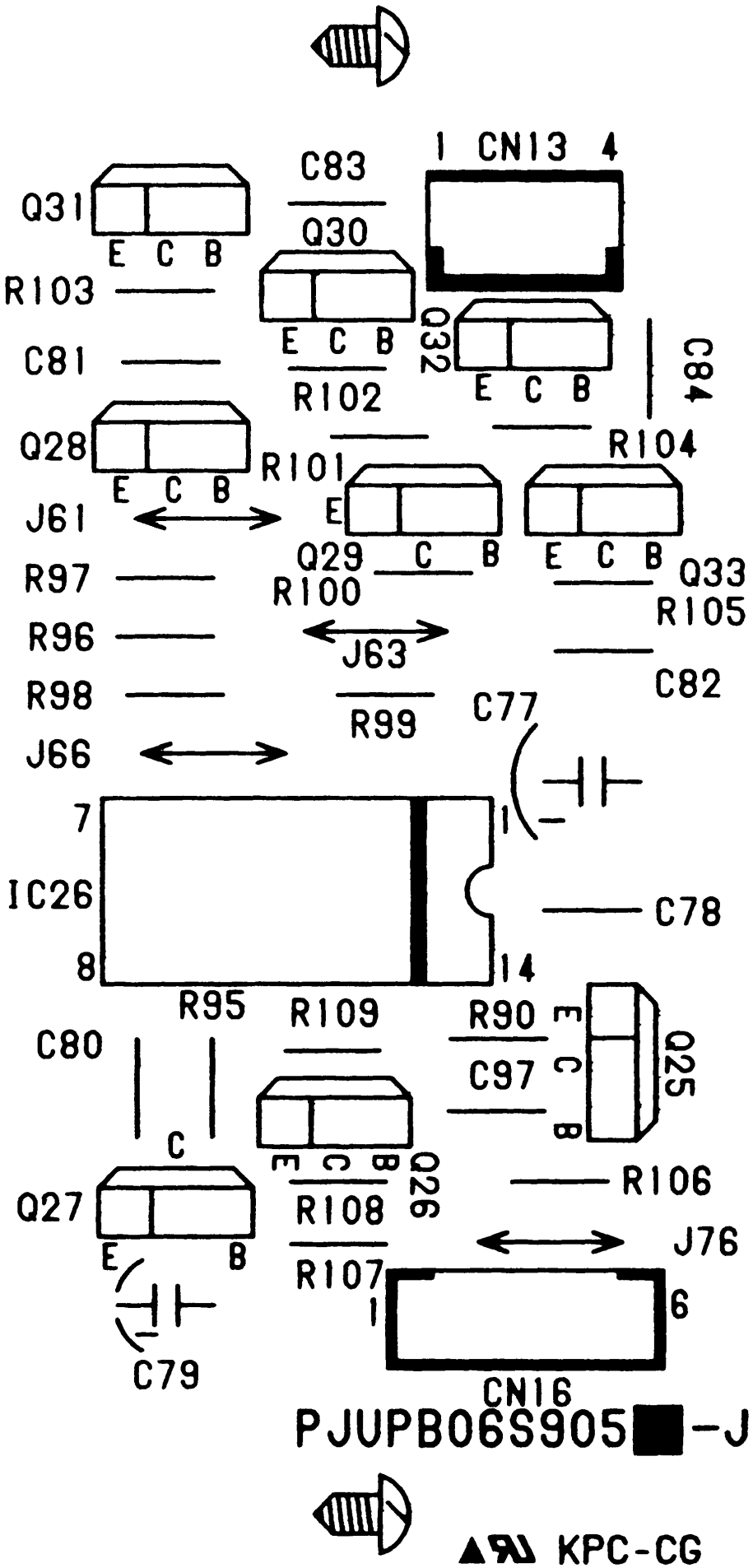
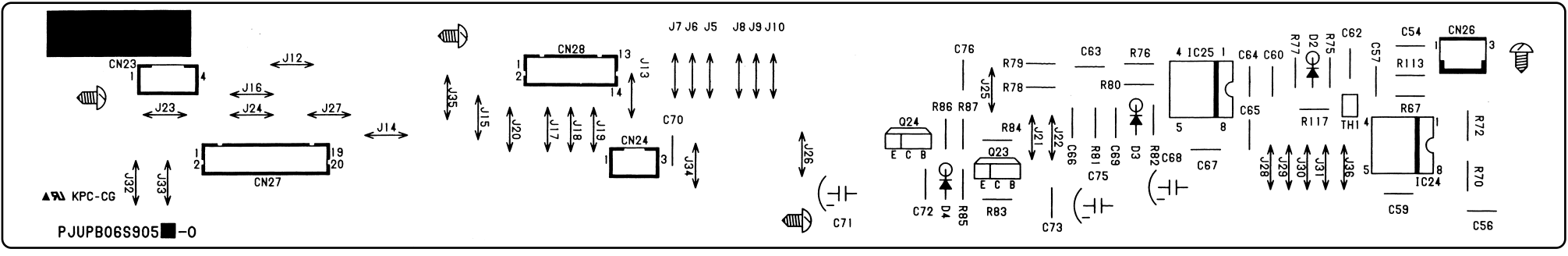
C38
J54
J55
Q14
E C B
R48
R47
CN15
1
4
IC15
K
C
E
A


PJUPB06S905■-H
KPC-CG
IC14
C
E
K
A
R43
R44
E C B
Q13
CN11
R111
C35
4


1 CN13 4
C83
Q31
E C B
Q30
E C B
R103
C81
Q32
E C B
C84
R102
R104
Q28
E C B
R101
J61
E
Q29 C B
E C B
Q33
R97
R100
R105
R96
J63
C82
R98
R99
C77
J66
7
1
IC26
C78
8
14
R95
R109
R90
C80
E
C
B
Q25
C97
C
Q26
E C B
R106
Q27
R108
J76
E B
R107
1
6
C79
CN16
PJUPB06S905■-J
KPC-CG


CN23
CN27
CN28
CN24
J12
J16
J23
J24
J27
J14
J35
J15
J20
J17
J18
J19
J13
J7 J6 J5
J8 J9 J10
C70
J34
J26
C71
J32
J33
KPC-CG
PJUPB06S905■-0
C76
R79
R78
J25
R86 R87
Q24
E C B
R84
Q23
E C B
J21
J22
C66
R81
C69
C75
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C68
C67
R80
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C64 C60
C65
R76
C63
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R83
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D2
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R75
C62
R117
TH1
C54
R113
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R67
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C59
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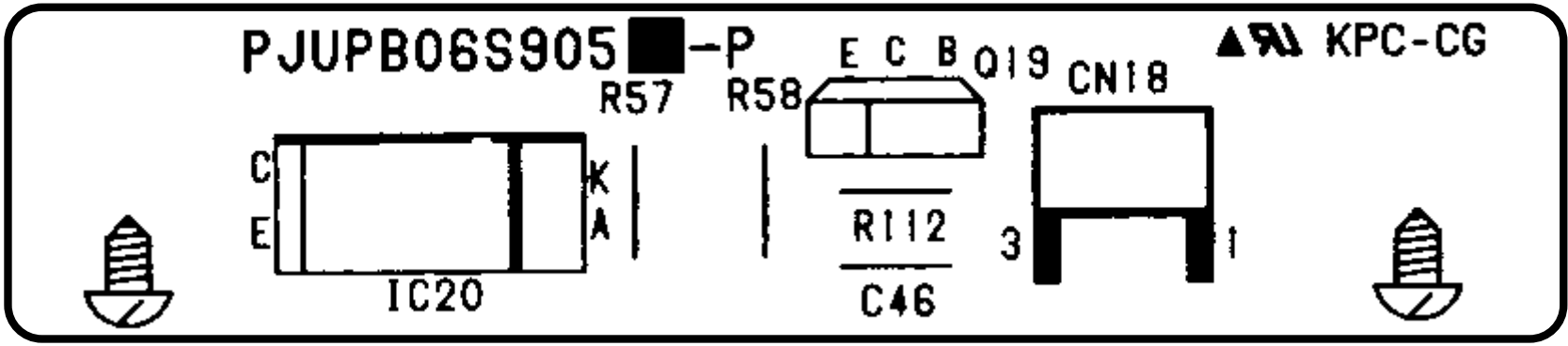
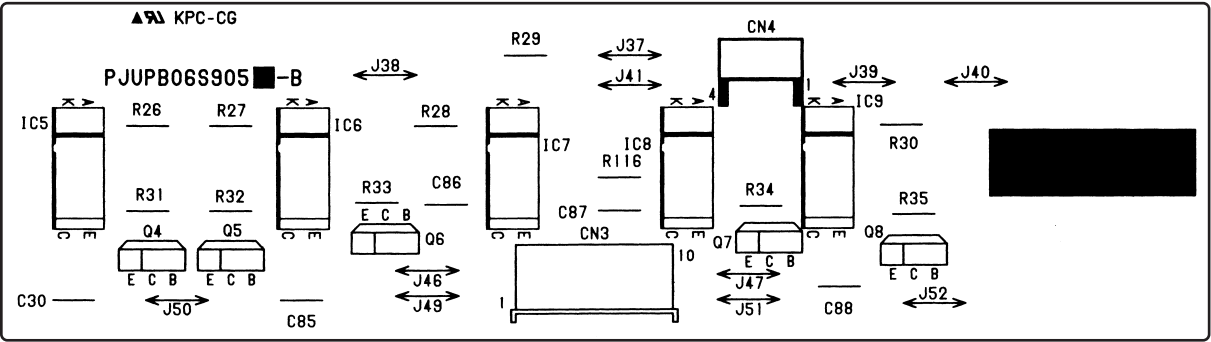
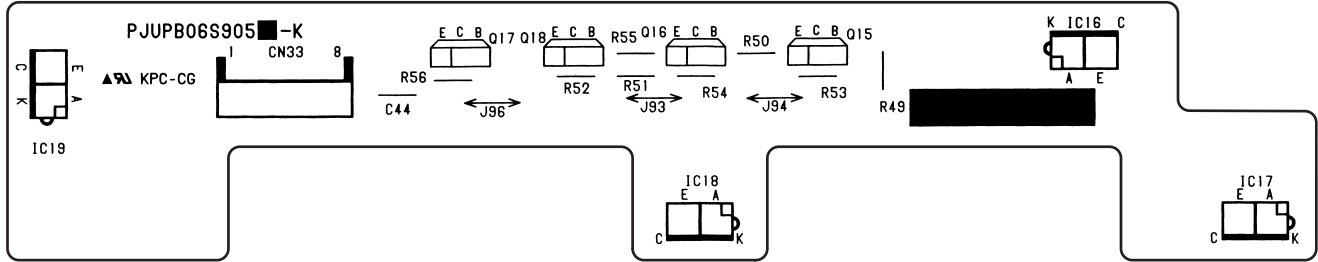
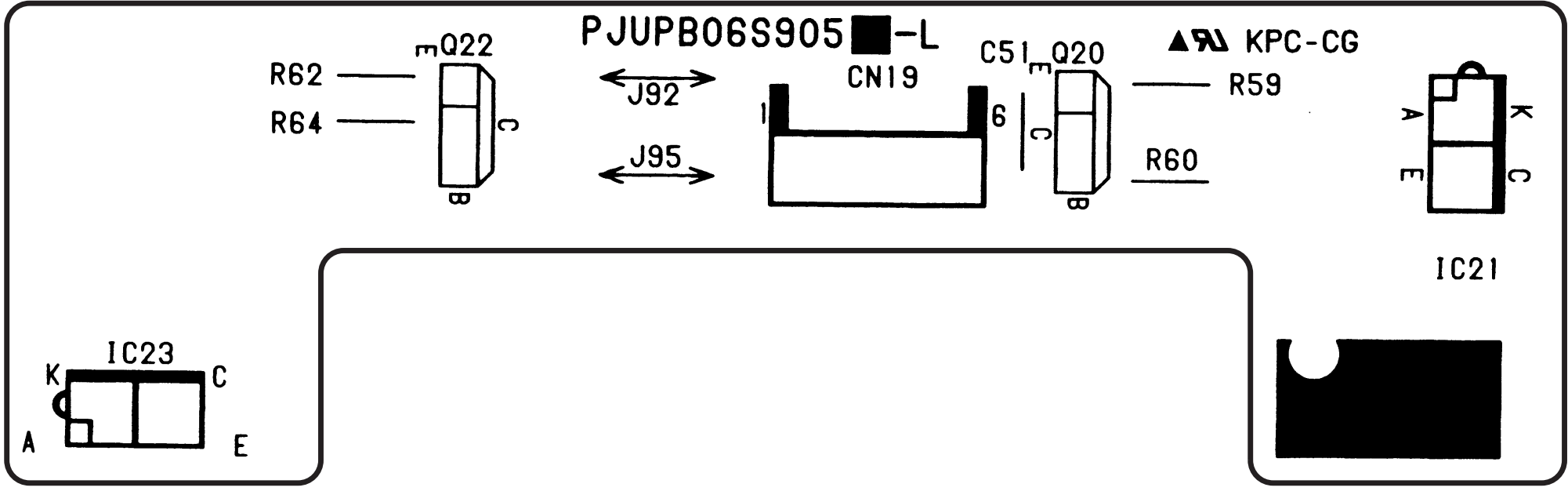
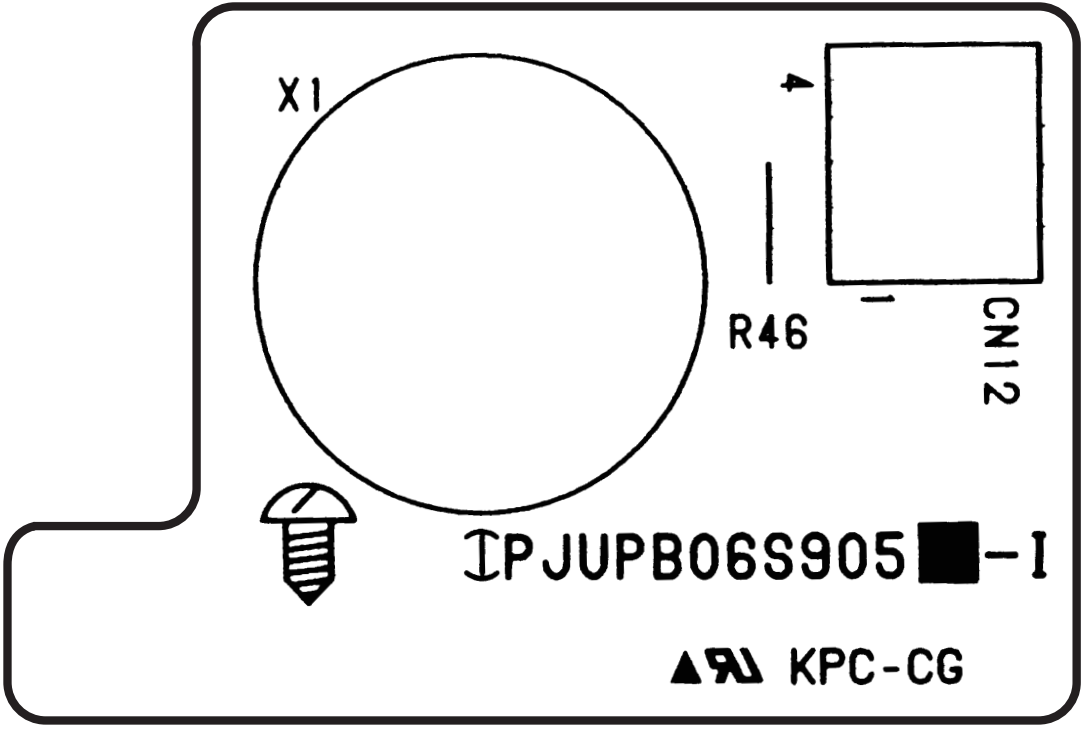
C56
J28
J29
J30
J31
J36

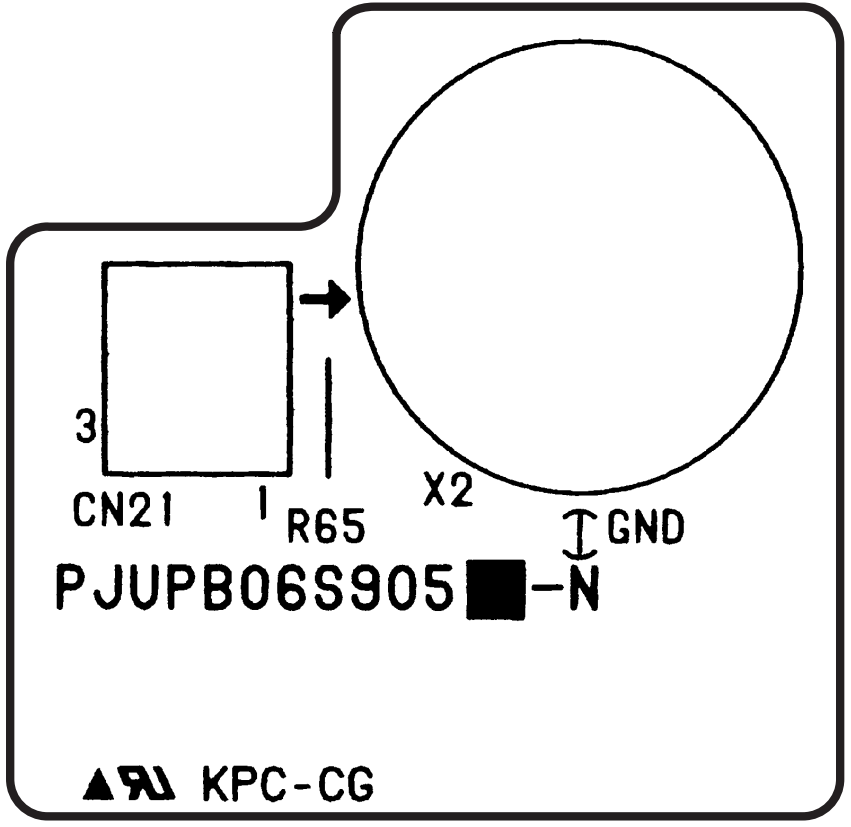

PJUPB06S905■-P
R57
R58
E C B Q19
CN18
KPC-CG
C
E
K
A
IC20
R112
C46
3
1

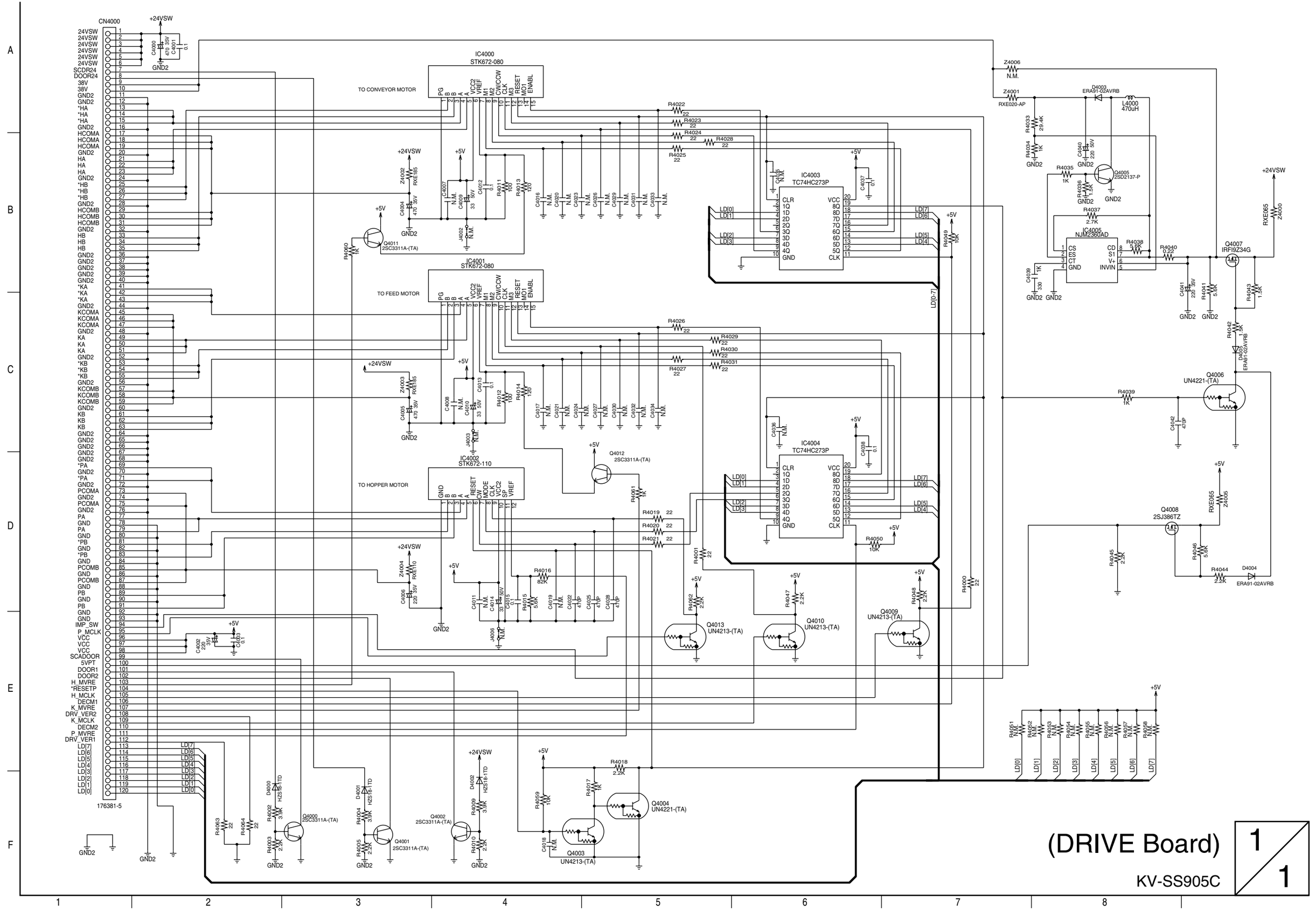

KPC-CG
PJUPB06S905■-B
J38
R29
J37
J41
CN4
J39
J40
IC5
R26
R27
IC6
R28
IC7
IC8
R116
IC9
R30
R31
R32
R33
C86
C87
R34
R35
Q4
Q5
Q6
CN3
Q7
Q8
C30
J50
C85
J46
J49
J47
J51
C88
J52

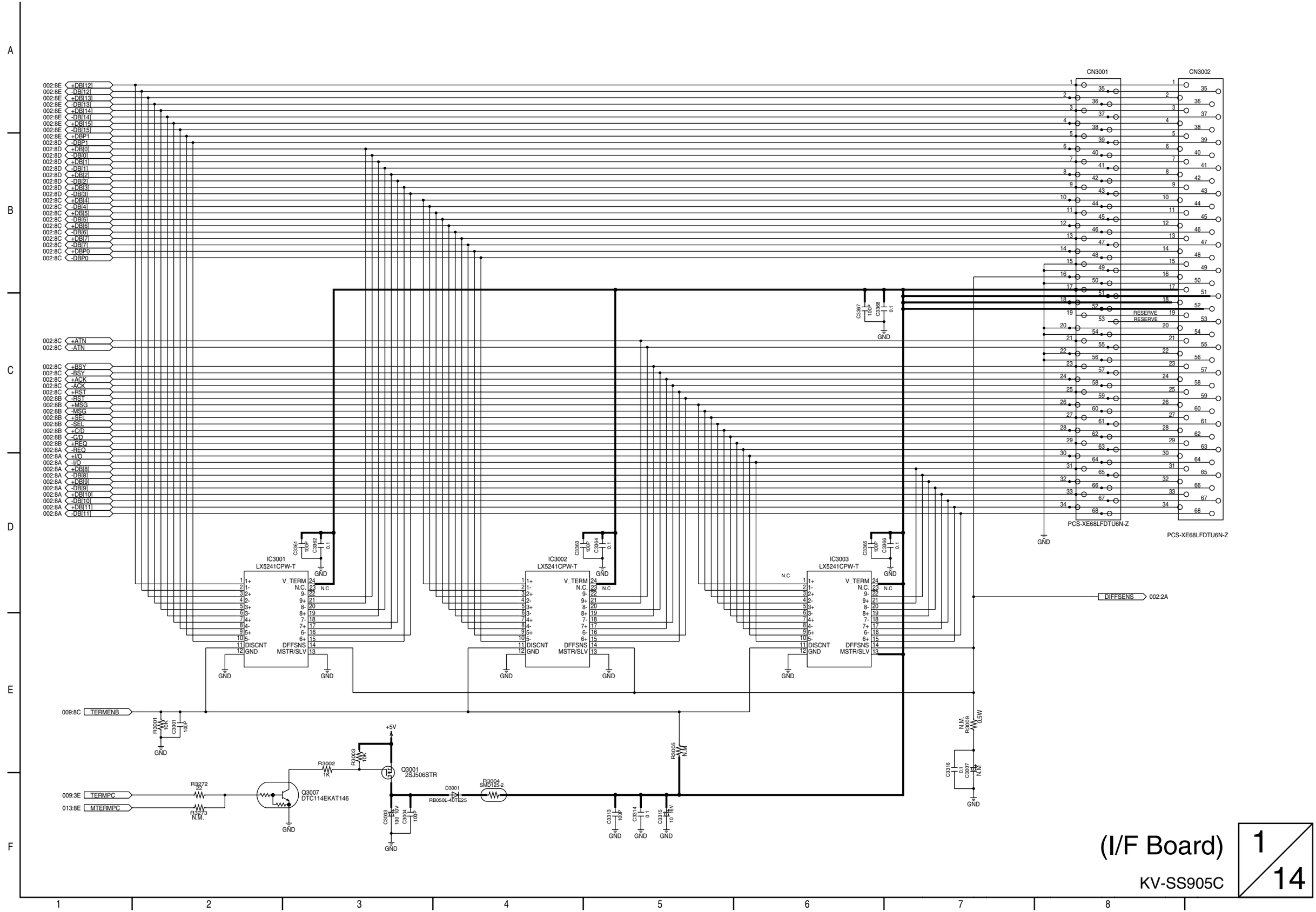

PJUPB06S905■-K
KPC-CG
CN33
1
8
C
K
E
A
IC19
E C B Q17
Q18
E C B
R55
Q16
E C B
R50
E C B Q15
K IC16 C
A E
R56
C44
J96
R52
R51
J93
R54
J94
R53
R49
IC18
E A
C K
IC17
E A
C K


PJUPB06S905■-L
KPC-CG
R62
R64
Q22
E
C
B
J92
J95
CN19
1
6
C51
Q20
E
C
B
R59
R60
A
K
E
C
IC21
IC23
K
C
A
E


X1
4
1
R46
CN12
IPJUPB06S905■-I
KPC-CG


3
CN21
1
R65
X2
GND
PJUPB06S905 ■ -N
KPC-CG


CN4000
IC4000 STK672-080
IC4001 STK672-080
IC4002 STK672-110
IC4003 TC74HC273P
IC4004 TC74HC273P
IC4005 NJM2360AD
TO CONVEYOR MOTOR
TO FEED MOTOR
TO HOPPER MOTOR
Q4000 2SC3311A-(TA)
Q4001 2SC3311A-(TA)
Q4002 2SC3311A-(TA)
Q4003 UN4213-(TA)
Q4004 UN4221-(TA)
Q4005 2SD2137-P
Q4006 UN4221-(TA)
Q4007 IRFI9Z34G
Q4008 2SJ386TZ
Q4009 UN4213-(TA)
Q4010 UN4213-(TA)
Q4011 2SC3311A-(TA)
Q4012 2SC3311A-(TA)
Q4013 UN4213-(TA)
D4000 HZS18-1TD
D4001 HZS18-1TD
D4002 HZS18-1TD
D4003 ERA91-02AVRB
D4004 ERA91-02AVRB
D4005 ERA91-02AVRB
L4000 470uH
+24VSW
+5V
GND2
LD[0-7]
176381-5
(DRIVE Board)
KV-SS905C
1/1


002:8E +DB[12]
002:8E -DB[12]
002:8E +DB[13]
002:8E -DB[13]
002:8E +DB[14]
002:8E -DB[14]
002:8E +DB[15]
002:8E -DB[15]
002:8E +DBP1
002:8D -DBP1
002:8D +DB[0]
002:8D -DB[0]
002:8D +DB[1]
002:8D -DB[1]
002:8D +DB[2]
002:8D -DB[2]
002:8D +DB[3]
002:8D -DB[3]
002:8C +DB[4]
002:8C -DB[4]
002:8C +DB[5]
002:8C -DB[5]
002:8C +DB[6]
002:8C -DB[6]
002:8C +DB[7]
002:8C -DB[7]
002:8C +DBP0
002:8C -DBP0
002:8C +ATN
002:8C -ATN
002:8C +BSY
002:8C -BSY
002:8C +ACK
002:8C -ACK
002:8C +RST
002:8B -RST
002:8B +MSG
002:8B -MSG
002:8B +SEL
002:8B -SEL
002:8B +C/D
002:8B -C/D
002:8B +REQ
002:8A -REQ
002:8A +I/O
002:8A -I/O
002:8A +DB[8]
002:8A -DB[8]
002:8A +DB[9]
002:8A -DB[9]
002:8A +DB[10]
002:8A -DB[10]
002:8A +DB[11]
002:8A -DB[11]
CN3001
CN3002
RESERVE
RESERVE
PCS-XE68LFDTU6N-Z
PCS-XE68LFDTU6N-Z
C3387 100P
C3388 0.1
GND
IC3001
LX5241CPW-T
IC3002
LX5241CPW-T
IC3003
LX5241CPW-T
V_TERM
N.C.
DFFSNS
MSTR/SLV
DISCNT
GND
C3361 100P
C3362 0.1
C3363 100P
C3364 0.1
C3365 100P
C3366 0.1
DIFFSENS
002:2A
009:8C TERMENB
R3001 10K
C3001 100P
009:3E TERMPC
013:8E MTERMPC
R3272 22
R3273 N.M.
Q3007 DTC114EKAT146
R3002 1K
R3003 10K
+5V
Q3001 2SJ506STR
D3001 RB050L-40TE25
R3004 SMD125-2
R3005 N.M
C3003 100 10V
C3004 100P
C3313 100P
C3314 0.1
C3315 10 16V
N.M. R3009 0.5W
C3316 0.1
C3007 N.M
(I/F Board)
KV-SS905C
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013:8A PLL_VDD

001:8D DIFFSENS
002:2F;008:8E CLKSC40

009:1B;013:8E RSTCPU
004:7E SCSICS

004:8C WTSC
004:8C RDSC

004:8D SCAD[0-7]

004:8E DTSC[0-15]

004:7F PAUSESC

004:7E DBOESC
004:8D DACKSC

004:8C FFFESC
004:8C AFAESC

004:7E AENSC

002:2A;008:8E CLKSC40

ARDYSC 004:6F
ALESC 004:6F
IRQSC 009:5E;013:2F

IC3005
FAS466

IC3004
SG-8002JA80MHzSCC

IC3006
SM530AYB

CLKDMA80 004:1D

(I/F Board)
KV-SS905C
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(CODE DATA)

(IMAGE DATA)

JPEG

IC3007

TE3300

("H" level in case of stand-by)

NOTE

(HBSL : L=8bit,H=16bit/BUS SIZE)

(HSEL : L=86,H=68/CPU TYPE)

(I/F Board)

KV-SS905C

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005:8A MDTA[0-15]
005:8A MDTB[0-15]
003:8A JDATA[0-15]

MAB[0-14] 005:2A
MAA[0-14] 005:2A
MWEB
MOEB 005:2A
MWEB 005:2B
MWEA 005:2B
MOEA 005:2A

+3V
L3026 BLM11A601SPT
L3027
L3028
L3029
L3030
C3091 0.1
GND

JDATA15 - MAA17
JDATA14 = MAA16
JDATA13 = MAA15
JDATA 10 = MAB17
JDATA 9 = MAB16
JDATA 8 = MAA15

IC3008
SLA5335HF2A

003:8E RDYJP
013:8A PLL_VDD
002:8F CLKDMA80
003:8E IRQJP
003:8A JOENB
006:8D SWIN
006:8E;012:2C SMD[0-15]

013:8E WTDLD
003:3E;009:8A CPRD
CPWRH
003:3E;006:1F;009:7A;010:4E;011:2C;014:2C
006:1F;009:7A CPAS
009:8E CS1
009:8E CS3
009:8B CS4
RESET3
006:2F;011:6F;012:2F;013:8E JCLK
003:3E;006:7E;008:8E;012:2E CPA[0-9]
006:1E;003:3E;009:8E;010:2A;011:2A;011:6B
009:8B RSTIFC

SRDY 006:7F
RSTJP 003:3E
JOSTOP 003:2D
RB751V-40TE17

002:8A ARDYSC
002:8A ALESC
CDATA[8-15]
003:8E;006:1E;010:8B;013:8E;014:5A
DLDQE 013:2F

WTSC 002:2B
RDSC 002:2B
FFFESC 002:2D
AFAESC 002:2D
LBDIFSC 002:8E
DREQSC 002:8E
DACKSC 002:2D
SCAD[0-7] 002:2B
DTSC[0-15] 002:2C
AENSC 002:2D
SCSICS 002:2B
DBOESC 002:2D
PAUSESC 002:2D
OSCST 008:2E
BUFCS 005:2B
CE1 010:4E;011:2B
IRQIF 009:2B
IFCWAIT 008:2F

(I/F Board)

KV-SS905C

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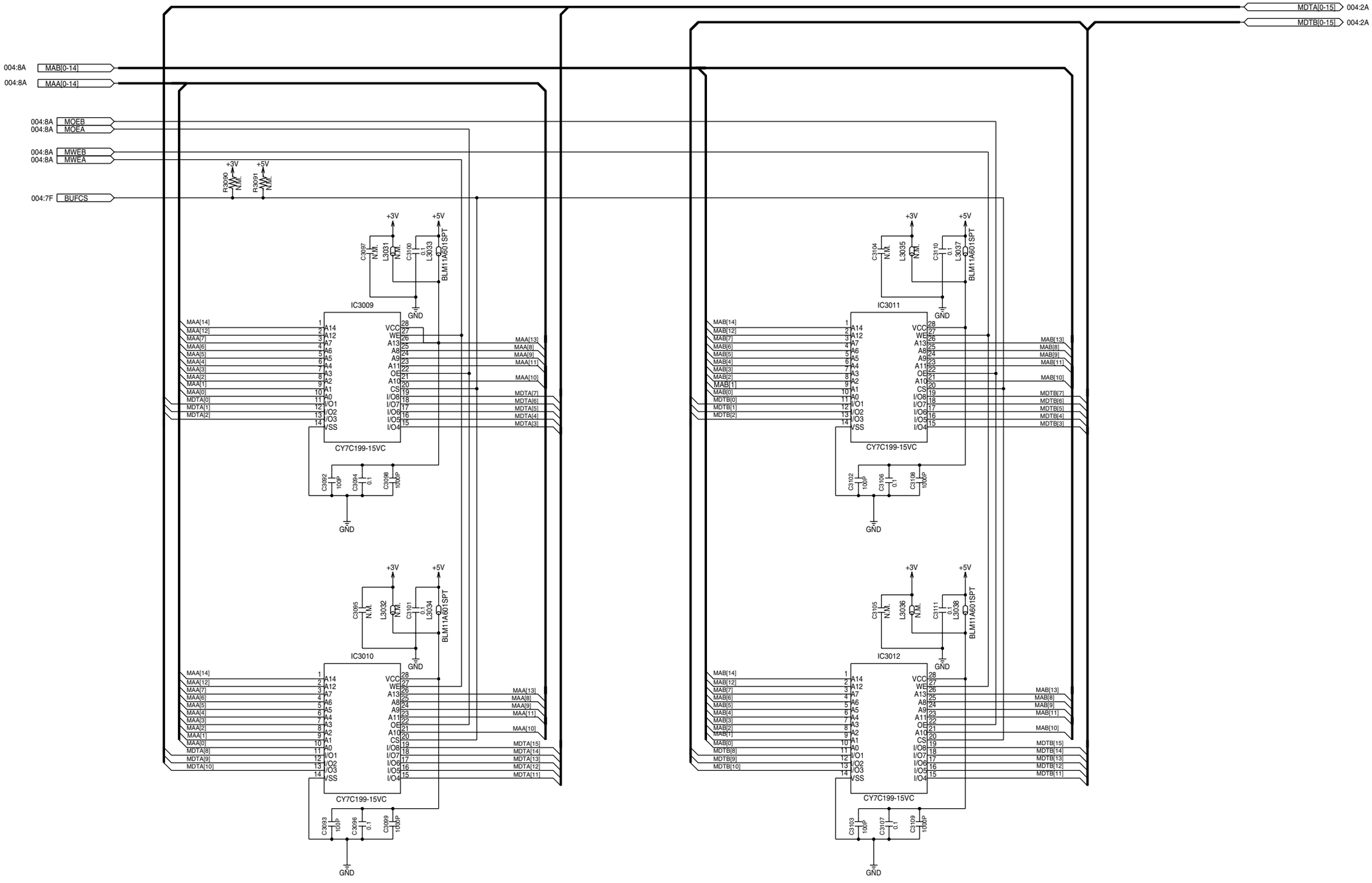

(Buffer A : GA-IFC)

(Buffer B : GA-IFC)

(I/F Board)

KV-SS905C

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GA-IMG

(GA-IMG)

(GA-IMG)

IC3013

SIL58153F20Q0

(DIMM)

(I/F Board)

KV-SS905C

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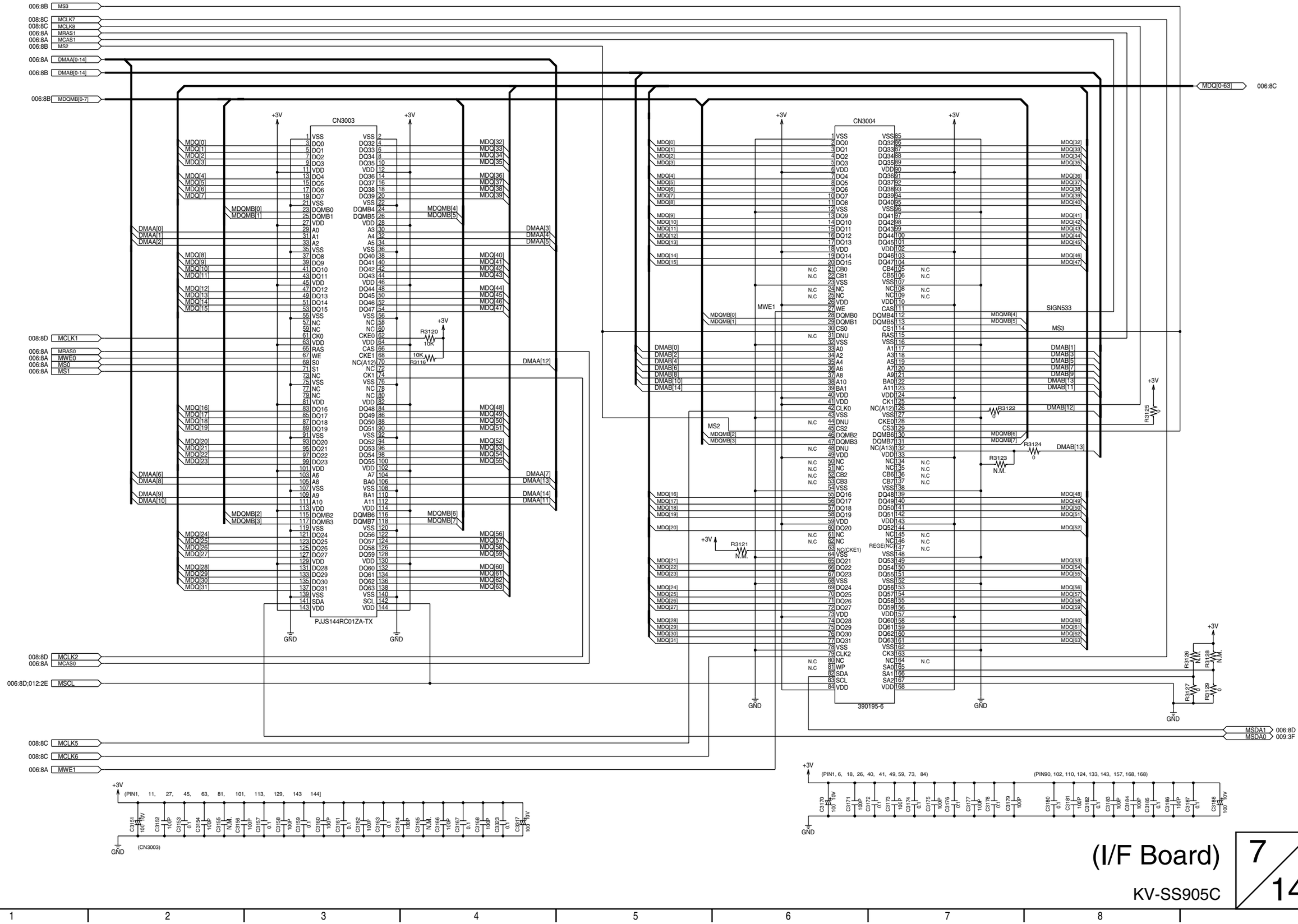

(I/F Board)

KV-SS905C

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(I/F Board)

KV-SS905C

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(GA-IMG)

IC3015 CY7C199-15VC

IC3016 TC7SZ04FU(TE85L) (VCC=2~6V)

IC3017 SG-8002JA90MHzSCC

IC3037 SM560

IC3014 SG-8002JA25MHzSCC

IC3018 SG-8002JA40MHzSCC (ST=H: OUT)

IC3038 SG-8002JA24MHzSCC

(CLOCK DRIVER)

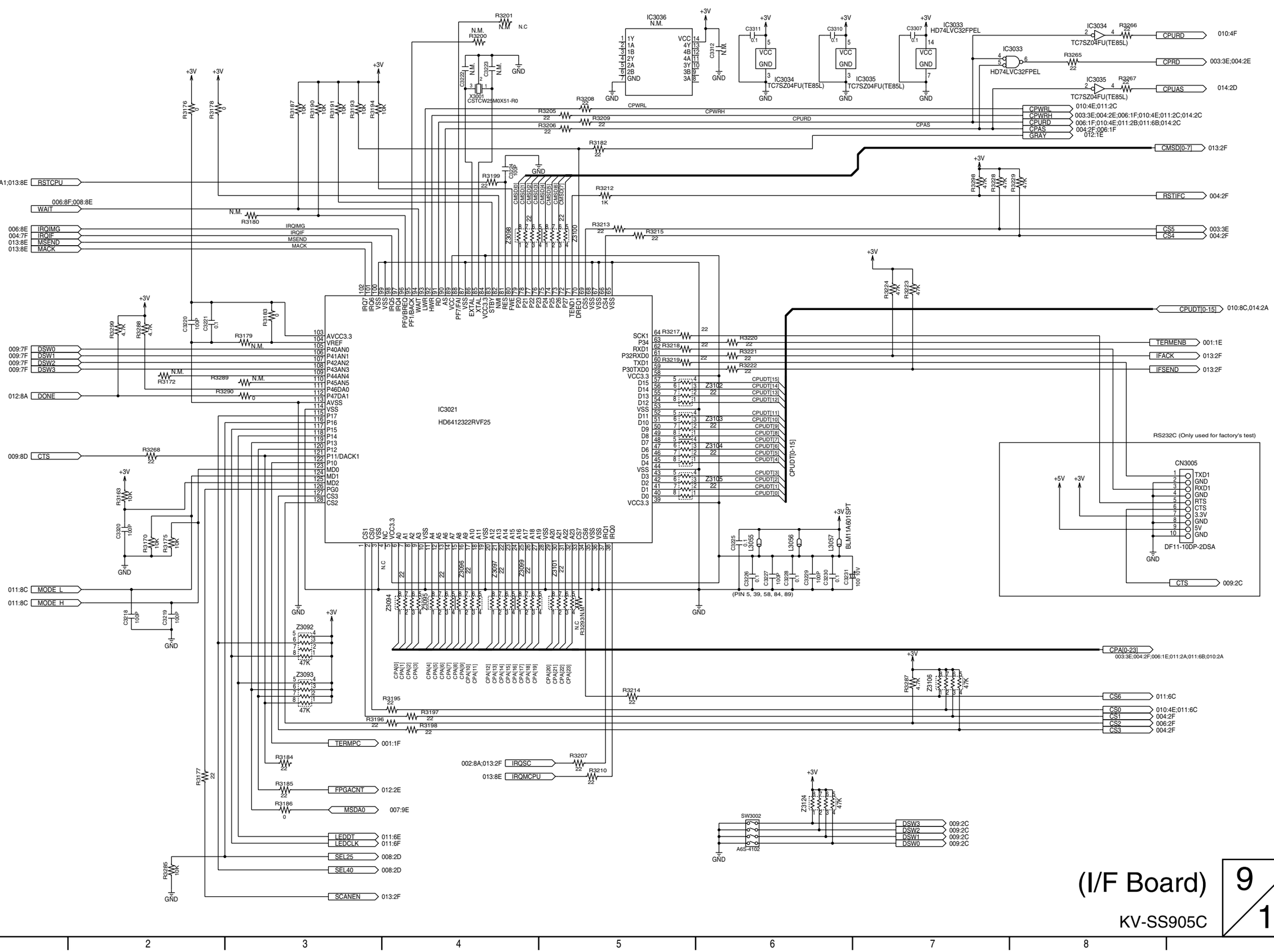
IC3019 PI6C2509-133LX

IC3041 PI6C2509-133

IC3020 HD74LVC125AFPEL

(CPU:P16)

(CPU:P17)



(I/F Board)

KV-SS905C

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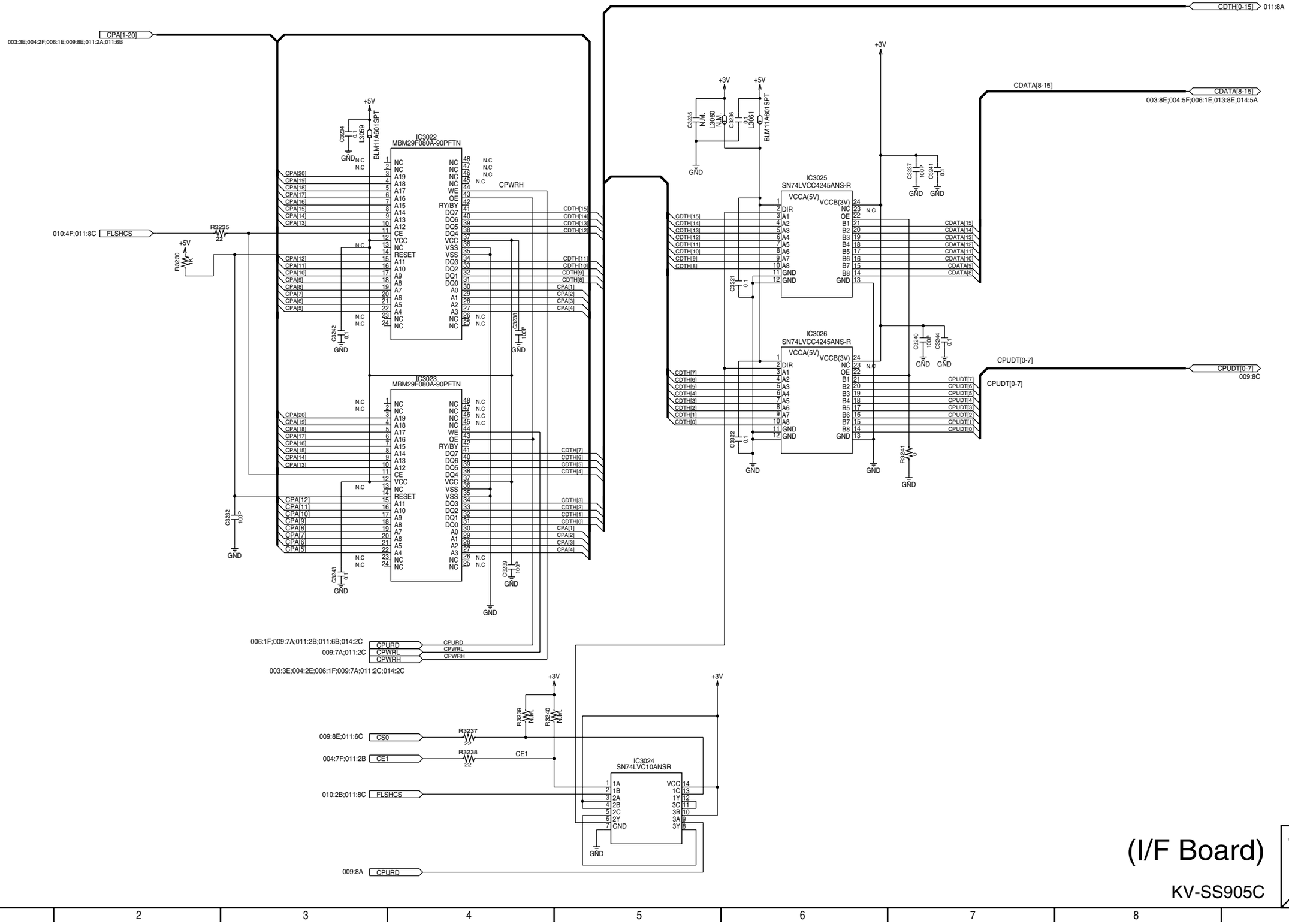

(I/F Board)

KV-SS905C

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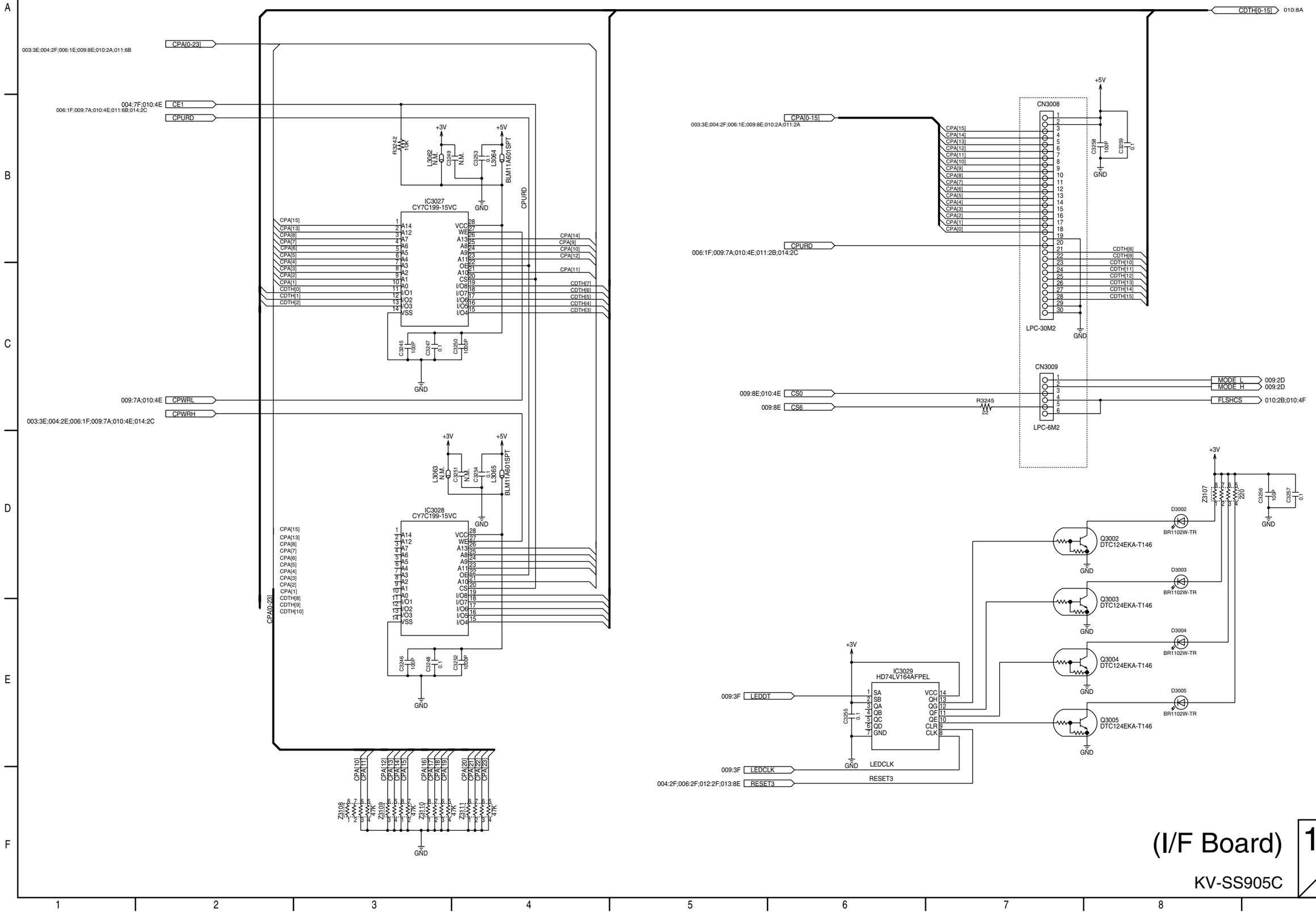
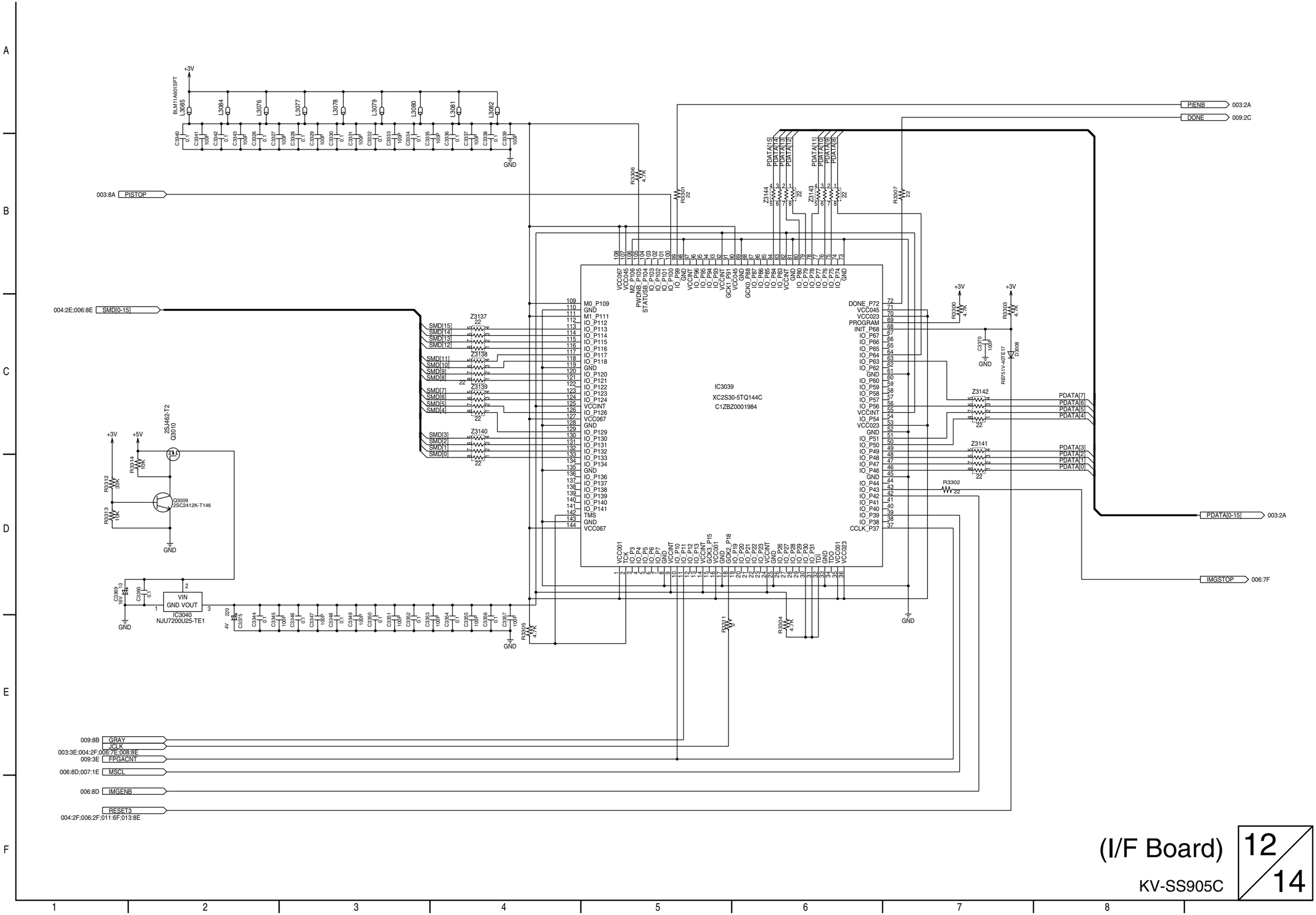


(I/F Board)

KV-SS905C

11/14



(I/F Board)

KV-SS905C

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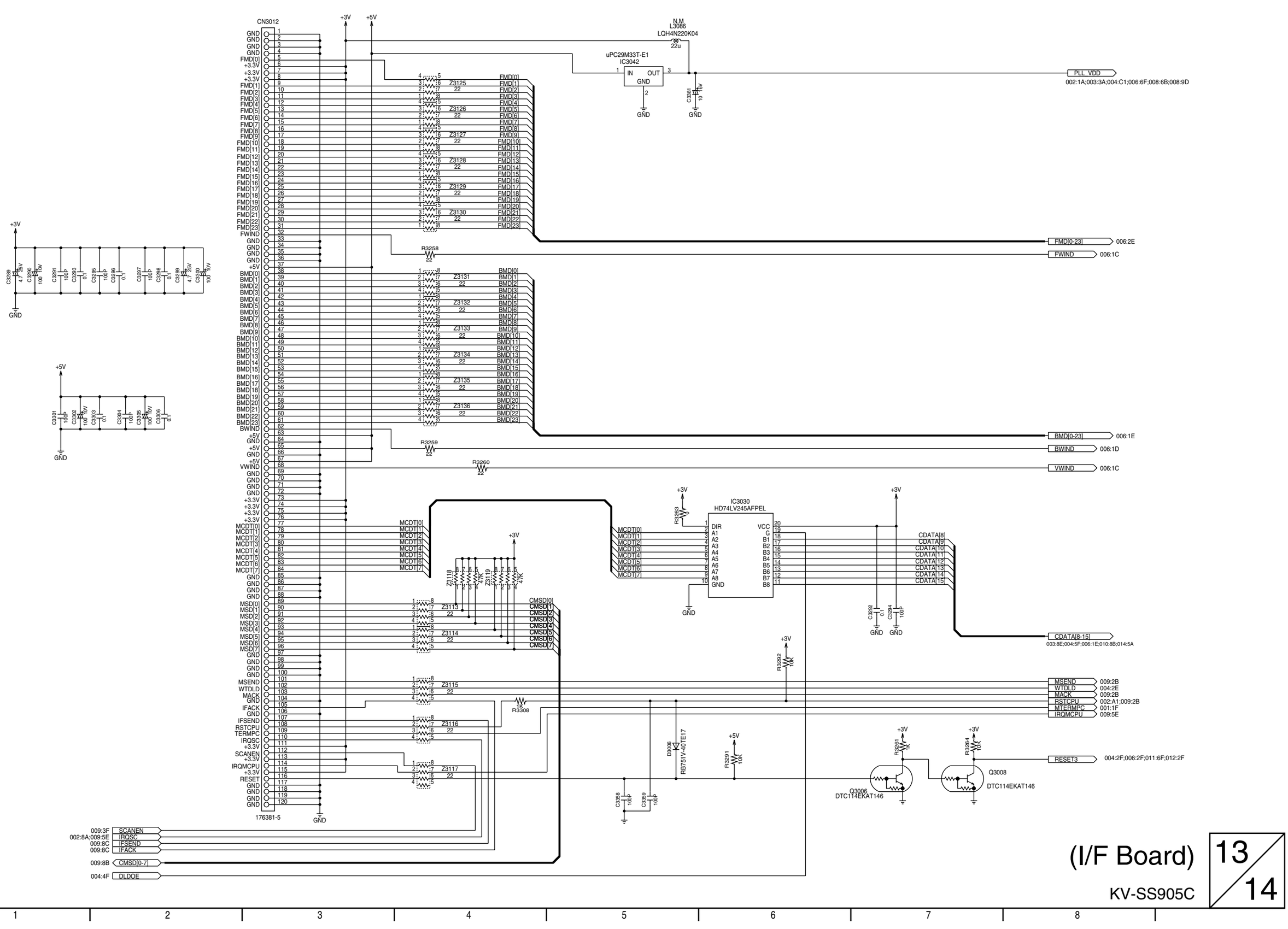
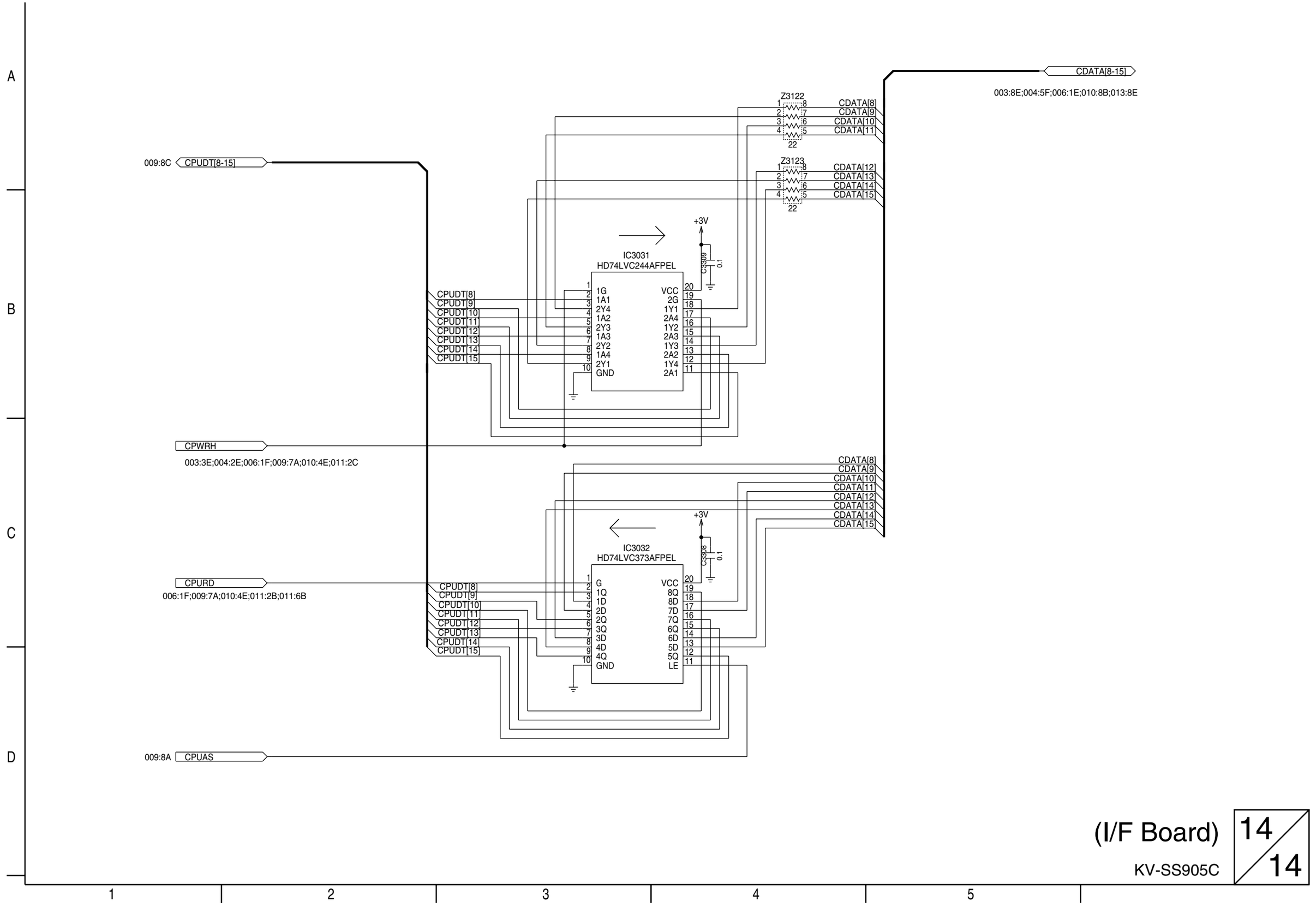

CN3012
176381-5
IC3030
HD74LV245AFPEL
uPC29M33T-E1
IC3042
N.M
L3066
LQH4N220K04
22u
PLL_VDD
002:1A;003:3A;004:C1;006:6F;008:6B;008:9D
FMD[0-23]
006:2E
FWIND
006:1C
BMD[0-23]
006:1E
BWIND
006:1D
VWIND
006:1C
CDATA[8-15]
003:8E;004:5F;006:1E;010:8B;014:5A
MSEND
WTDLD
MACK
RSTCPU
MTERMPC
IRQMCPU
009:2B
004:2E
009:2B
002:A1;009:2B
001:1F
009:5E
RESET3
004:2F;006:2F;011:6F;012:2F
009:3F SCANEN
002:8A;009:5E IRQSC
009:8C IFSEND
009:8C IFACK
009:8B CMSD[0-7]
004:4F DLDOE
Q3006
DTC114EKAT146
Q3008
DTC114EKAT146
D3006
RB751V-40TE17
(I/F Board)
KV-SS905C
13
14



(I/F Board)

KV-SS905C

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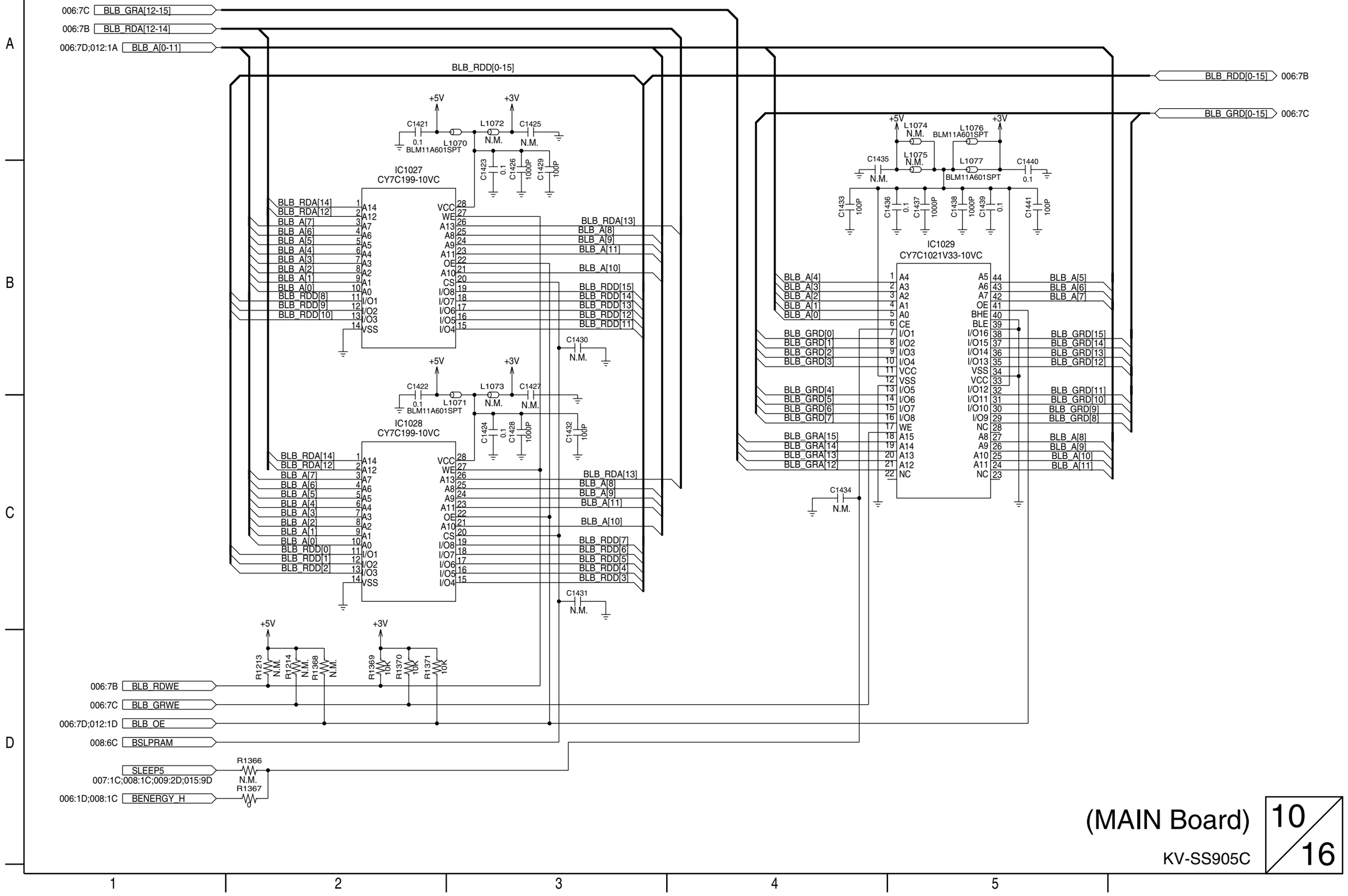
006:7C BLB_GRA[12-15]
006:7B BLB_RDA[12-14]
006:7D;012:1A BLB_A[0-11]
BLB_RDD[0-15]
BLB_RDD[0-15] 006:7B
BLB_GRD[0-15] 006:7C
+5V
+3V
C1421 0.1
L1070 BLM11A601SPT
L1072 N.M.
C1425 N.M.
C1423 0.1
C1426 1000P
C1429 100P
IC1027
CY7C199-10VC
BLB_RDA[14] BLB_RDA[12] BLB_A[7] BLB_A[6] BLB_A[5] BLB_A[4] BLB_A[3] BLB_A[2] BLB_A[1] BLB_A[0] BLB_RDD[8] BLB_RDD[9] BLB_RDD[10]
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O1 I/O2 I/O3 VSS
VCC WE A13 A8 A9 A11 OE A10 CS I/O8 I/O7 I/O6 I/O5 I/O4
BLB_RDA[13] BLB_A[8] BLB_A[9] BLB_A[11] BLB_A[10] BLB_RDD[15] BLB_RDD[14] BLB_RDD[13] BLB_RDD[12] BLB_RDD[11]
C1430 N.M.
C1422 0.1
L1071 BLM11A601SPT
L1073 N.M.
C1427 N.M.
C1424 0.1
C1428 1000P
C1432 100P
IC1028
CY7C199-10VC
BLB_RDA[14] BLB_RDA[12] BLB_A[7] BLB_A[6] BLB_A[5] BLB_A[4] BLB_A[3] BLB_A[2] BLB_A[1] BLB_A[0] BLB_RDD[0] BLB_RDD[1] BLB_RDD[2]
BLB_RDA[13] BLB_A[8] BLB_A[9] BLB_A[11] BLB_A[10] BLB_RDD[7] BLB_RDD[6] BLB_RDD[5] BLB_RDD[4] BLB_RDD[3]
C1431 N.M.
L1074 N.M.
L1076 BLM11A601SPT
L1075 N.M.
C1435 N.M.
L1077 BLM11A601SPT
C1440 0.1
C1433 100P
C1436 0.1
C1437 1000P
C1438 1000P
C1439 0.1
C1441 100P
IC1029
CY7C1021V33-10VC
BLB_A[4] BLB_A[3] BLB_A[2] BLB_A[1] BLB_A[0] BLB_GRD[0] BLB_GRD[1] BLB_GRD[2] BLB_GRD[3] BLB_GRD[4] BLB_GRD[5] BLB_GRD[6] BLB_GRD[7] BLB_GRA[15] BLB_GRA[14] BLB_GRA[13] BLB_GRA[12]
A4 A3 A2 A1 A0 CE I/O1 I/O2 I/O3 I/O4 VCC VSS I/O5 I/O6 I/O7 I/O8 WE A15 A14 A13 A12 NC
A5 A6 A7 OE BHE BLE I/O16 I/O15 I/O14 I/O13 VSS VCC I/O12 I/O11 I/O10 I/O9 NC A8 A9 A10 A11 NC
BLB_A[5] BLB_A[6] BLB_A[7] BLB_GRD[15] BLB_GRD[14] BLB_GRD[13] BLB_GRD[12] BLB_GRD[11] BLB_GRD[10] BLB_GRD[9] BLB_GRD[8] BLB_A[8] BLB_A[9] BLB_A[10] BLB_A[11]
C1434 N.M.
R1213 N.M.
R1214 N.M.
R1368 N.M.
R1369 10K
R1370 10K
R1371 10K
006:7B BLB_RDWE
006:7C BLB_GRWE
006:7D;012:1D BLB_OE
008:6C BSLPRAM
SLEEP5
007:1C;008:1C;009:2D;015:9D
R1366 N.M.
R1367 0
006:1D;008:1C BENERGY_H
(MAIN Board)
KV-SS905C
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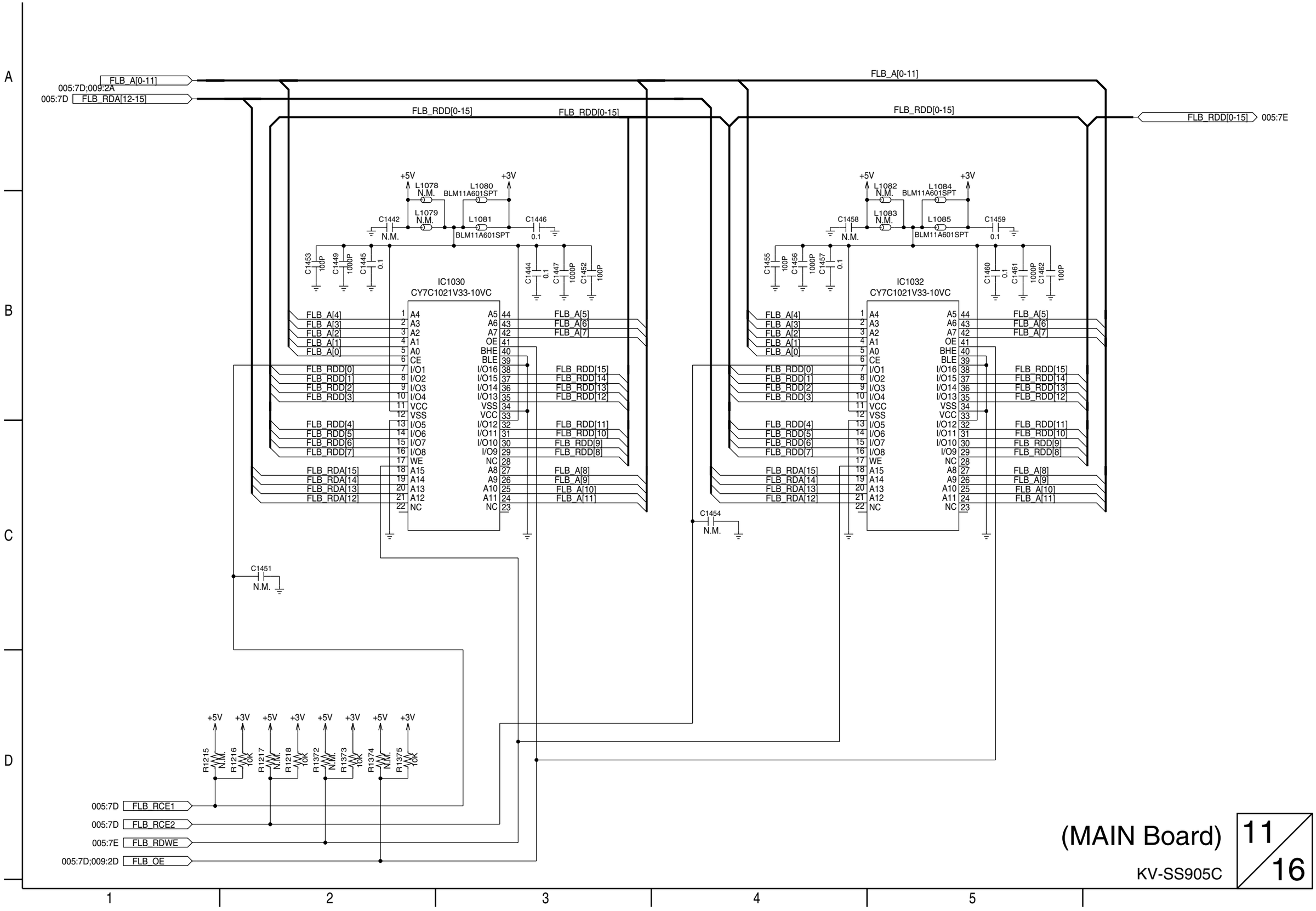

(MAIN Board)

KV-SS905C

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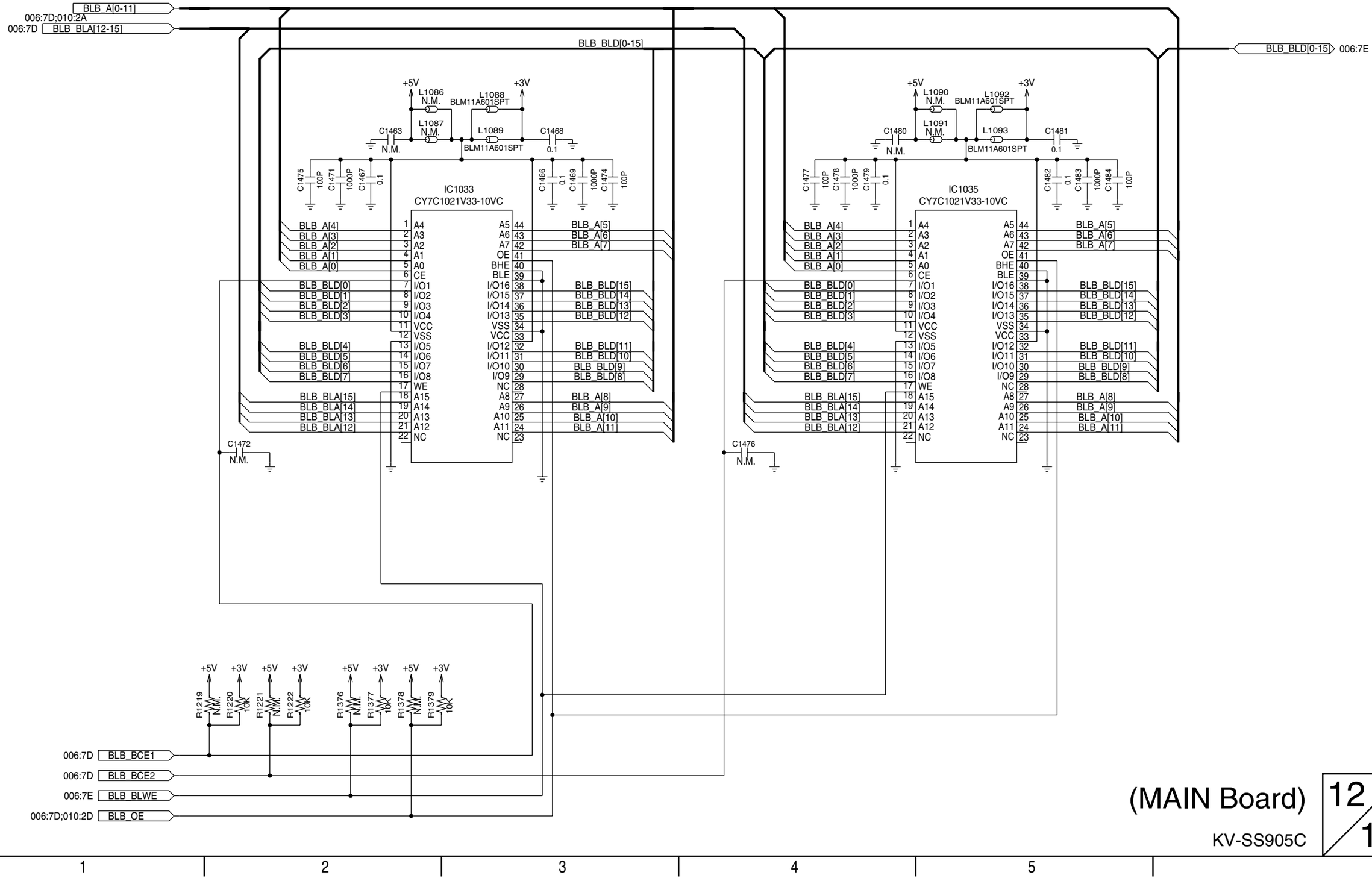

(MAIN Board)

KV-SS905C

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014:6C CDAC1
014:6C CDAC2
014:6C CDAC3
014:6C CDAC4

+5V
Z1101
8 7 6 5
1 2 3 4
2.2K

014:6C ADAC1
001:6C PHEAD
R1251 47K
R1244 47K
R1267 330K
IC1040 NJM2902V-TE1

014:6C ADAC2
001:6C STBY
R1252 47K
R1245 47K
R1271 330K
IC1040 NJM2902V-TE1

014:6C ADAC3
001:6C SKEWR
R1253 47K
R1246 47K
R1273 330K
IC1040 NJM2902V-TE1

014:6C ADAC4
001:6C SKEWL
R1254 47K
R1247 47K
R1275 330K
IC1040 NJM2902V-TE1

R1259 330K
R1261 330K
R1264 330K
R1268 330K

R1284 3.3K
R1276 3.3K
R1292 N.M.
IC1042

R1285 3.3K
R1277 3.3K
R1294 N.M.
IC1042

R1286 3.3K
R1278 3.3K
R1296 N.M.
IC1042 NJM2901V-TE1

R1287 3.3K
R1279 3.3K
R1298 N.M.
IC1042

P_SHITAN 015:1C
P_TAIKI 015:1C
P_SKWR 015:1C
P_SKWL 015:1C

C1503 N.M.
C1505 N.M.
C1507 N.M.
C1509 N.M.

014:6C CDAC5
014:6C CDAC6
014:6A PJ_DAC2
014:6C CDAC8

+5V
Z1102
8 7 6 5
1 2 3 4
2.2K

014:6C ADAC5
001:6B LIMITR
R1255 47K
R1248 47K
R1266 330K
IC1041 NJM2902V-TE1

014:6C ADAC6
001:6B LIMITL
R1256 47K
R1249 47K
R1270 330K
IC1041 NJM2902V-TE1

014:6B PJ_DAC1
001:6B PJAM
R1263 47K
R1257 47K
R1272 220K
IC1041 NJM2902V-TE1

014:6C ADAC8
001:6C PFEXIT
R1258 47K
R1250 47K
R1274 220K
IC1041 NJM2902V-TE1

R1260 330K
R1262 330K
R1265 220K
R1269 220K

R1288 3.3K
R1280 3.3K
R1293 N.M.
IC1043

R1289 3.3K
R1281 3.3K
R1295 N.M.
IC1043

R1290 3.3K
R1282 3.3K
R1297 N.M.
IC1043 NJM2901V-TE1

R1291 3.3K
R1283 3.3K
R1299 N.M.
IC1043

P_LIMITR 015:1C
P_LIMITL 015:1C
P_JAM 015:1C
P_FHAISHI 015:1C

C1504 N.M.
C1506 N.M.
C1508 N.M.
C1510 N.M.

+5V OPAMP
C1499 0.1
VCC GND IC1040 NJM2902V-TE1

+5V OPAMP
C1500 0.1
VCC GND IC1041 NJM2902V-TE1

+5V COMPERATER
C1501 0.1
VCC GND IC1042 NJM2901V-TE1

+5V COMPERATER
C1502 0.1
VCC GND IC1043 NJM2901V-TE1

(MAIN Board)

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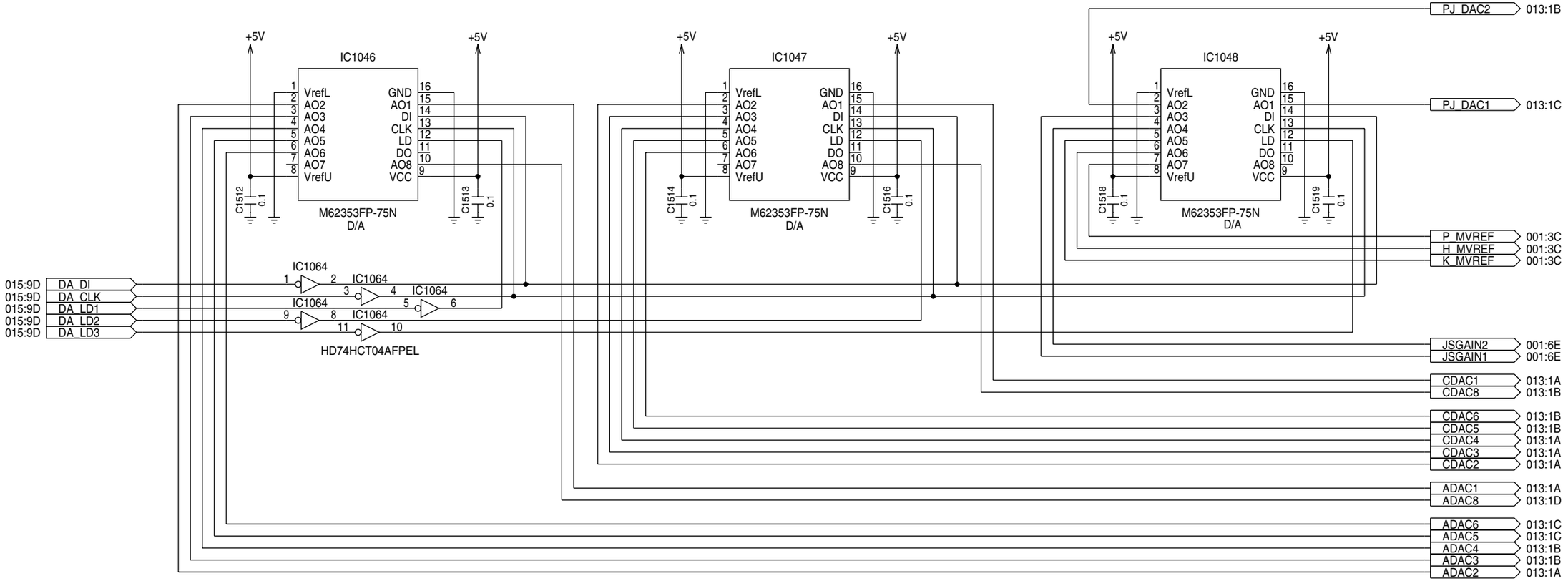
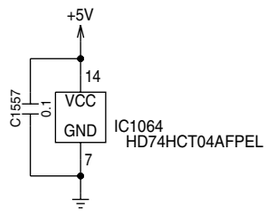
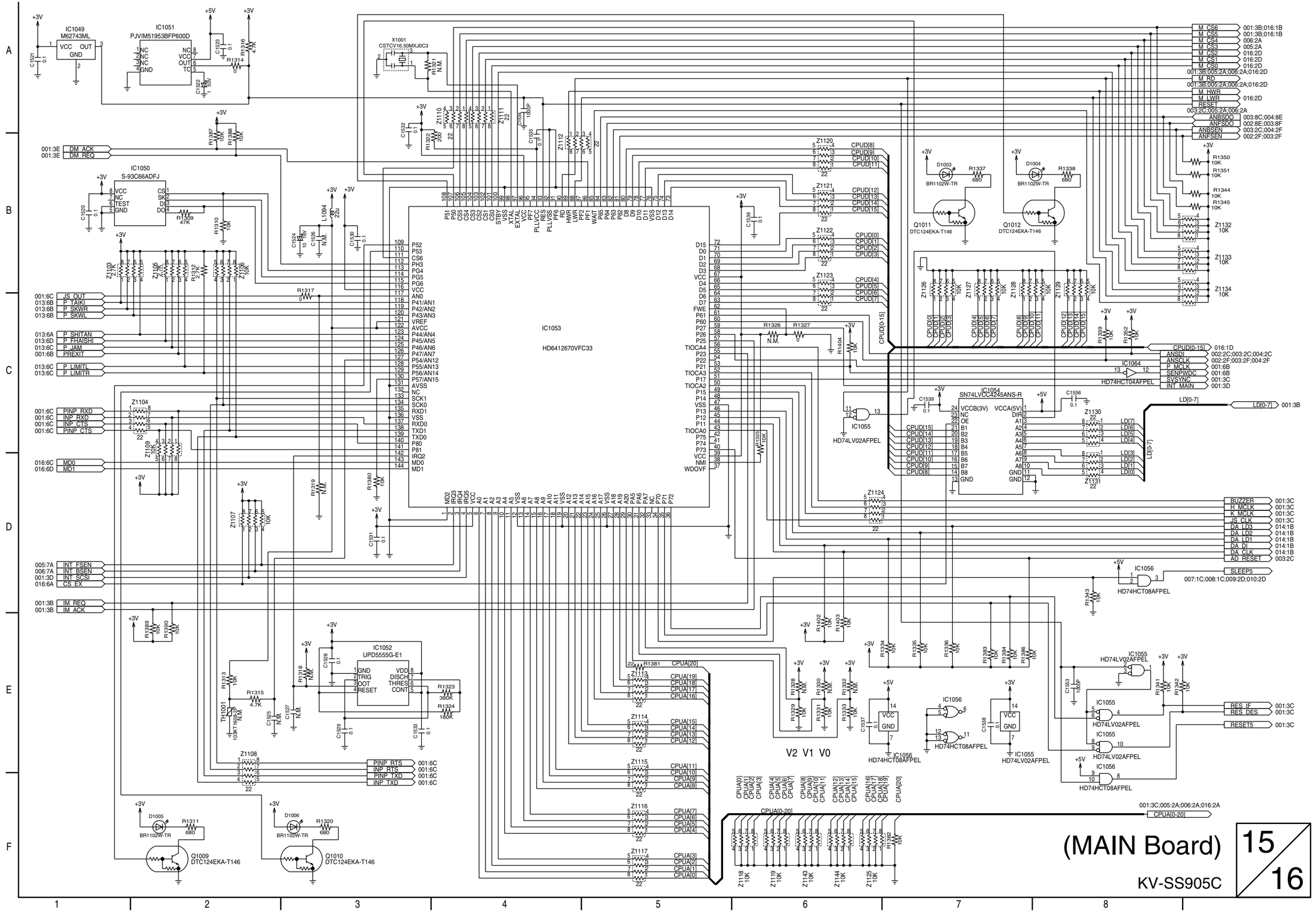

IC1046
IC1047
IC1048
VrefL
AO2
AO3
AO4
AO5
AO6
AO7
VrefU
GND
AO1
DI
CLK
LD
DO
AO8
VCC
M62353FP-75N
D/A
+5V
C1512
C1513
C1514
C1516
C1518
C1519
0.1
015:9D DA_DI
015:9D DA_CLK
015:9D DA_LD1
015:9D DA_LD2
015:9D DA_LD3
IC1064
HD74HCT04AFPEL
PJ_DAC2 013:1B
PJ_DAC1 013:1C
P_MVREF 001:3C
H_MVREF 001:3C
K_MVREF 001:3C
JSGAIN2 001:6E
JSGAIN1 001:6E
CDAC1 013:1A
CDAC8 013:1B
CDAC6 013:1B
CDAC5 013:1B
CDAC4 013:1A
CDAC3 013:1A
CDAC2 013:1A
ADAC1 013:1A
ADAC8 013:1D
ADAC6 013:1C
ADAC5 013:1C
ADAC4 013:1B
ADAC3 013:1B
ADAC2 013:1A


+5V
14
C1557
0.1
VCC
GND
IC1064
HD74HCT04AFPEL
7


IC1049
M62743ML
IC1051
PJVIM51953BFP600D
X1001
CSTCV16.50MXJ0C3
IC1050
S-93C66ADFJ
IC1053
HD6412670VFC33
IC1052
UPD5555G-E1
IC1054
SN74LVCC4245ANS-R
IC1055
HD74LV02AFPEL
IC1056
HD74HCT08AFPEL
IC1064
HD74HCT04AFPEL
Q1009
DTC124EKA-T146
Q1010
DTC124EKA-T146
Q1011
DTC124EKA-T146
Q1012
DTC124EKA-T146
D1003
D1004
D1005
D1006
BR1102W-TR
CPUD[0-15]
CPUA[0-20]
LD[0-7]
001:3B;016:1B
001:3B;005:2A;006:2A;016:2D
003:2C;005:2A;006:2A
001:3C;005:2A;006:2A;016:2A
007:1C;008:1C;009:2D;010:2D
(MAIN Board)
KV-SS905C
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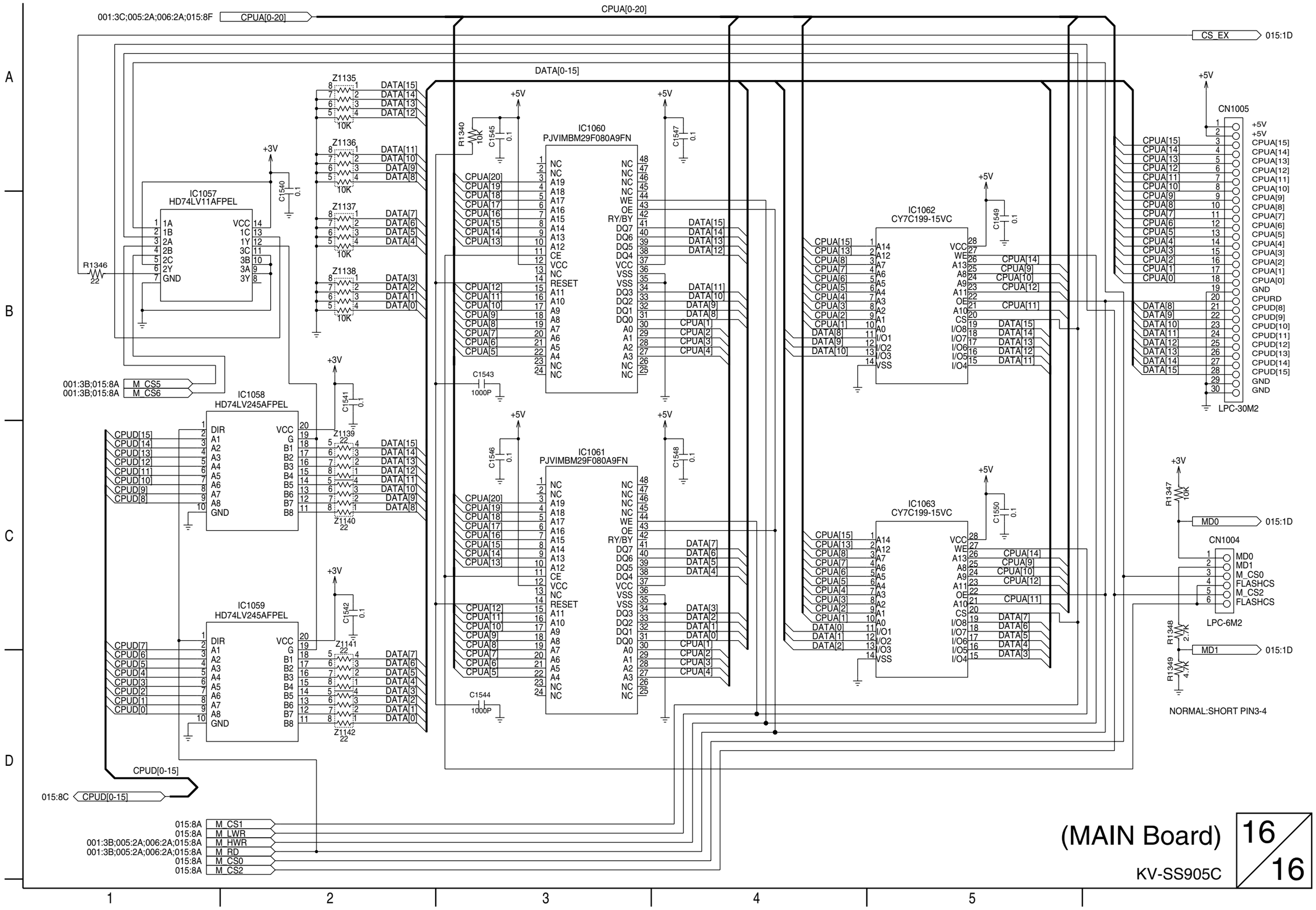
001:3C;005:2A;006:2A;015:8F
CPUA[0-20]
CS_EX
015:1D
DATA[0-15]
IC1057
HD74LV11AFPEL
R1346
22
+3V
C1540
0.1
Z1135
Z1136
Z1137
Z1138
10K
IC1060
PJVIMBM29F080A9FN
R1340
10K
C1545
C1547
C1543
1000P
+5V
IC1062
CY7C199-15VC
C1549
CN1005
LPC-30M2
001:3B;015:8A
M_CS5
001:3B;015:8A
M_CS6
IC1058
HD74LV245AFPEL
C1541
Z1139
22
CPUD[15]
CPUD[14]
CPUD[13]
CPUD[12]
CPUD[11]
CPUD[10]
CPUD[9]
CPUD[8]
DATA[15]
DATA[14]
DATA[13]
DATA[12]
DATA[11]
DATA[10]
DATA[9]
DATA[8]
IC1061
PJVIMBM29F080A9FN
C1546
C1548
C1544
IC1063
CY7C199-15VC
C1550
IC1059
HD74LV245AFPEL
C1542
Z1141
Z1142
CPUD[7]
CPUD[6]
CPUD[5]
CPUD[4]
CPUD[3]
CPUD[2]
CPUD[1]
CPUD[0]
DATA[7]
DATA[6]
DATA[5]
DATA[4]
DATA[3]
DATA[2]
DATA[1]
DATA[0]
CN1004
MD0
MD1
M_CS0
FLASHCS
M_CS2
FLASHCS
R1347
10K
R1348
2.7K
R1349
4.7K
015:1D
LPC-6M2
NORMAL:SHORT PIN3-4
CPUD[0-15]
015:8C
CPUD[0-15]
015:8A M_CS1
015:8A M_LWR
001:3B;005:2A;006:2A;015:8A M_HWR
001:3B;005:2A;006:2A;015:8A M_RD
015:8A M_CS0
015:8A M_CS2
(MAIN Board)
KV-SS905C
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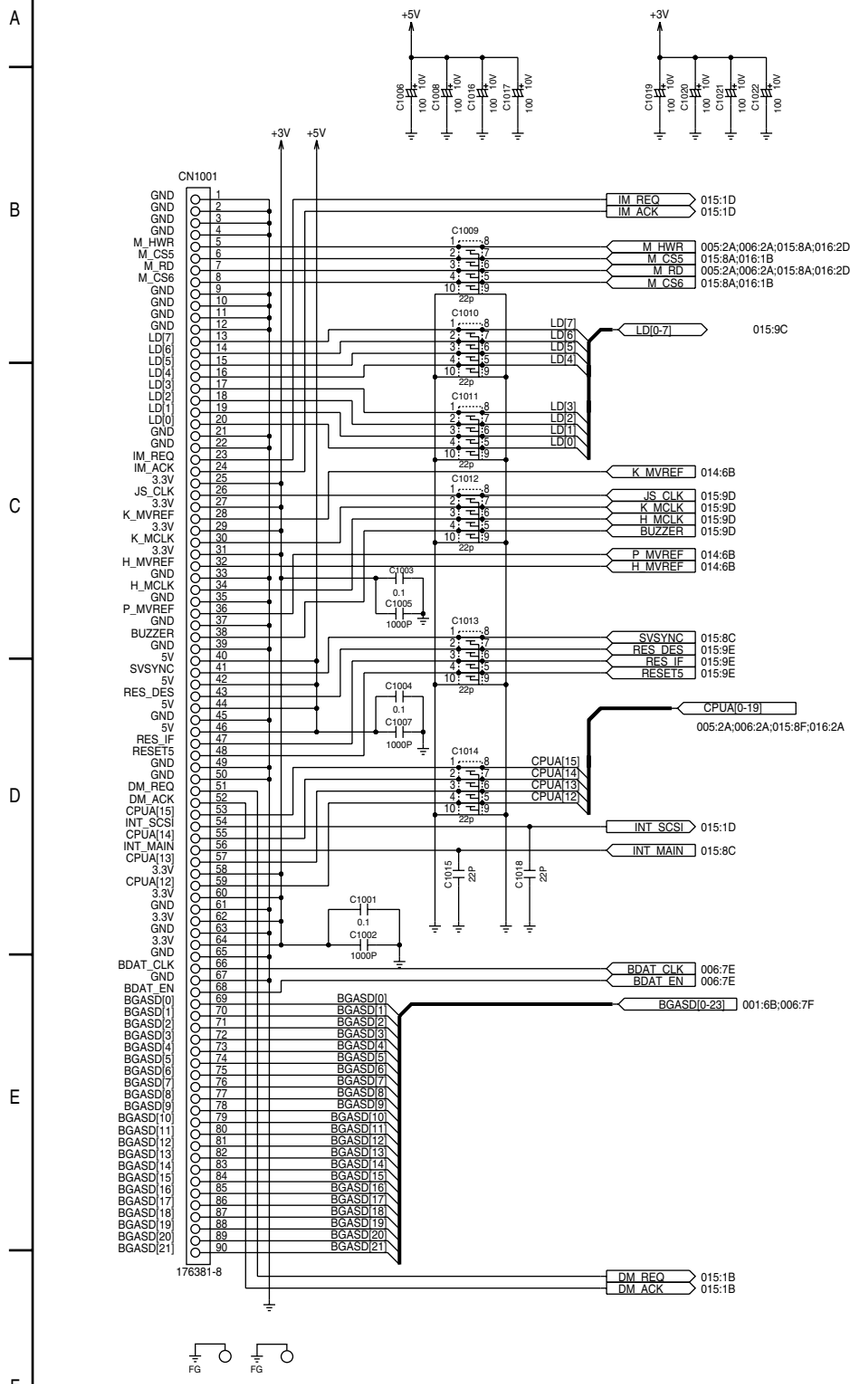
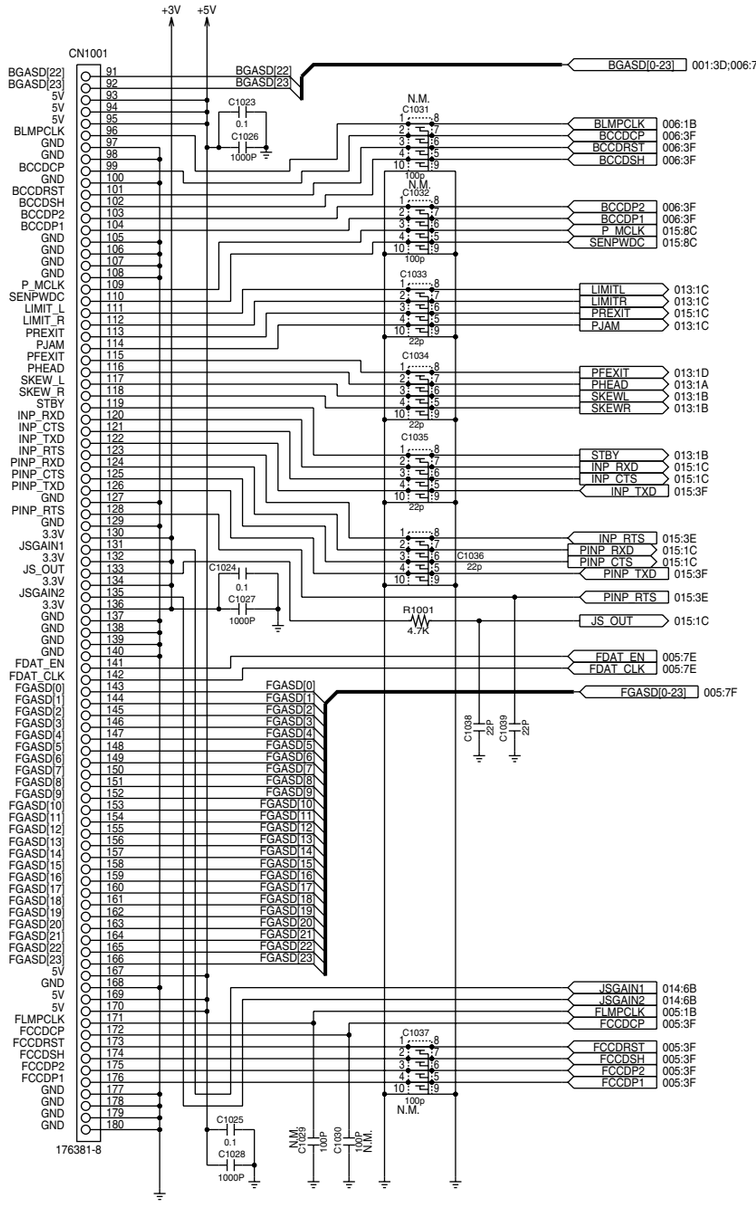
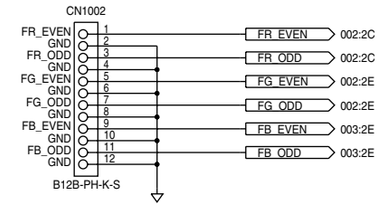
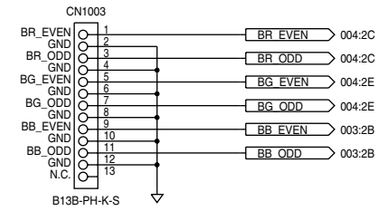




To MOTHER BOARD



From CCD BOARD(FRONT)



From CCD BOARD(BACK)

(MAIN Board)

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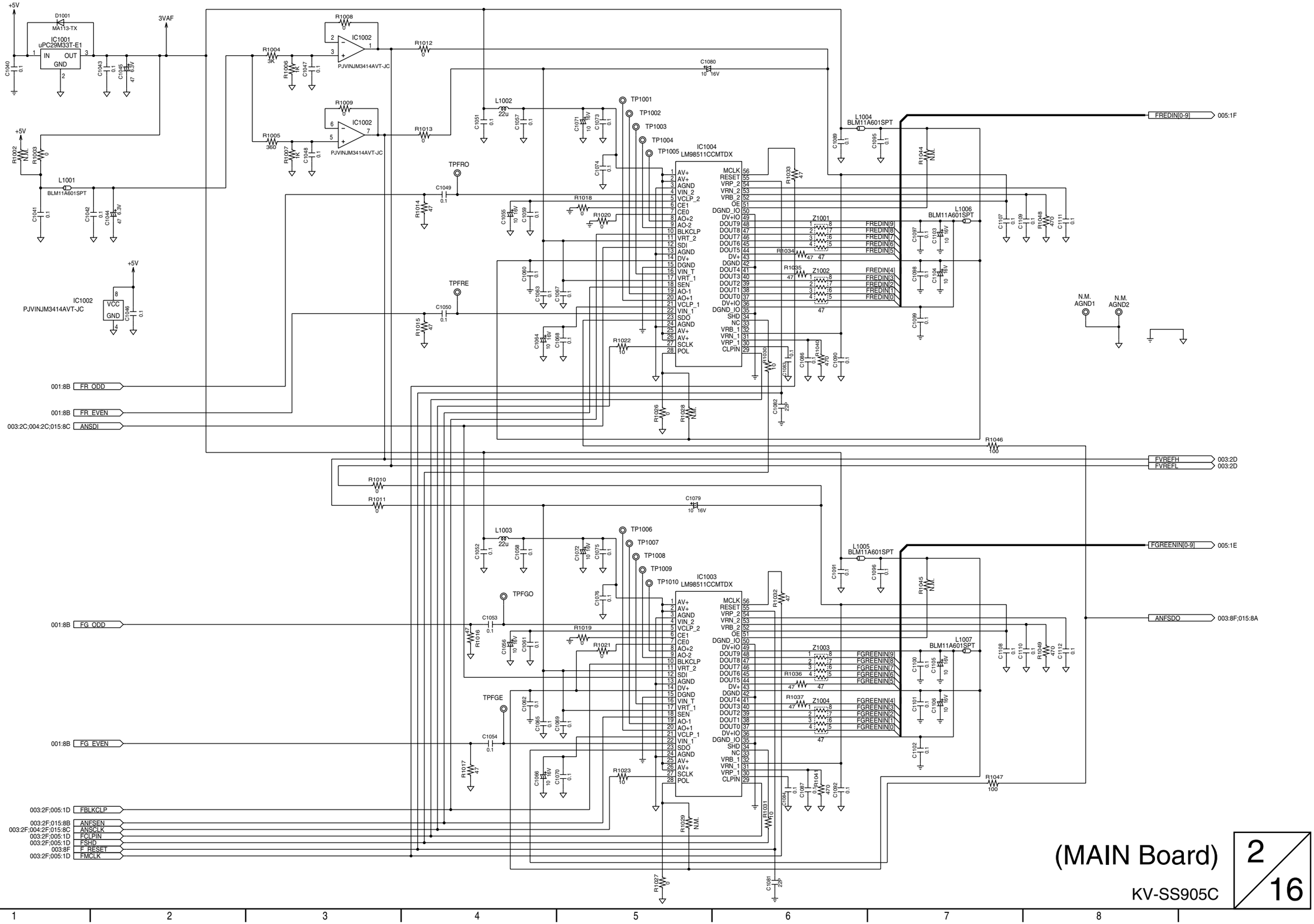
+5V
D1001
MA113-TX
IC1001
uPC29M33T-E1
IN
OUT
GND
3VAF
IC1002
PJVINJM3414AVT-JC
R1008
R1009
R1004
3K
R1005
360
R1006
R1007
R1012
R1013
C1080
10 16V
L1002
22u
TP1001
TP1002
TP1003
TP1004
TP1005
IC1004
LM98511CCMTDX
TPFRO
TPFRE
R1014
R1015
R1018
R1019
R1020
R1021
R1022
R1023
L1001
BLM11A601SPT
L1004
BLM11A601SPT
L1005
BLM11A601SPT
L1006
BLM11A601SPT
L1007
BLM11A601SPT
Z1001
Z1002
Z1003
Z1004
R1033
R1034
R1035
R1036
R1037
R1039
R1044
R1045
R1046
R1047
R1048
R1049
FREDIN[0-9]
005:1F
FGREENIN[0-9]
005:1E
ANFSDO
003:8F;015:8A
FVREFH
FVREFL
003:2D
N.M.
AGND1
AGND2
001:8B FR_ODD
001:8B FR_EVEN
003:2C;004:2C;015:8C ANSDI
001:8B FG_ODD
001:8B FG_EVEN
003:2F;005:1D FBLKCLP
003:2F;015:8B ANFSEN
003:2F;004:2F;015:8C ANSCLK
003:2F;005:1D FCLPIN
003:2F;005:1D FSHD
003:8F F_RESET
003:2F;005:1D FMCLK
(MAIN Board)
KV-SS905C
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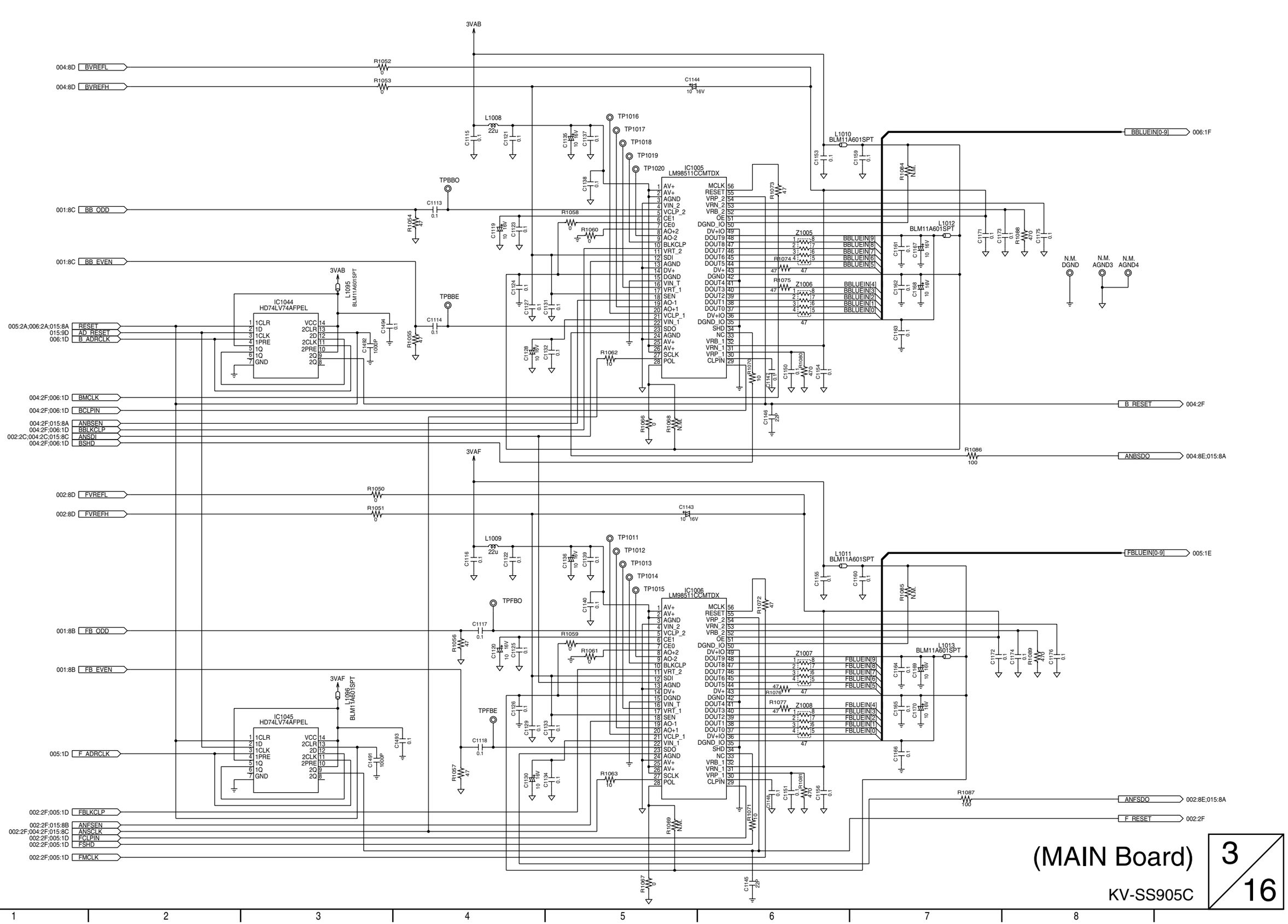

(MAIN Board)

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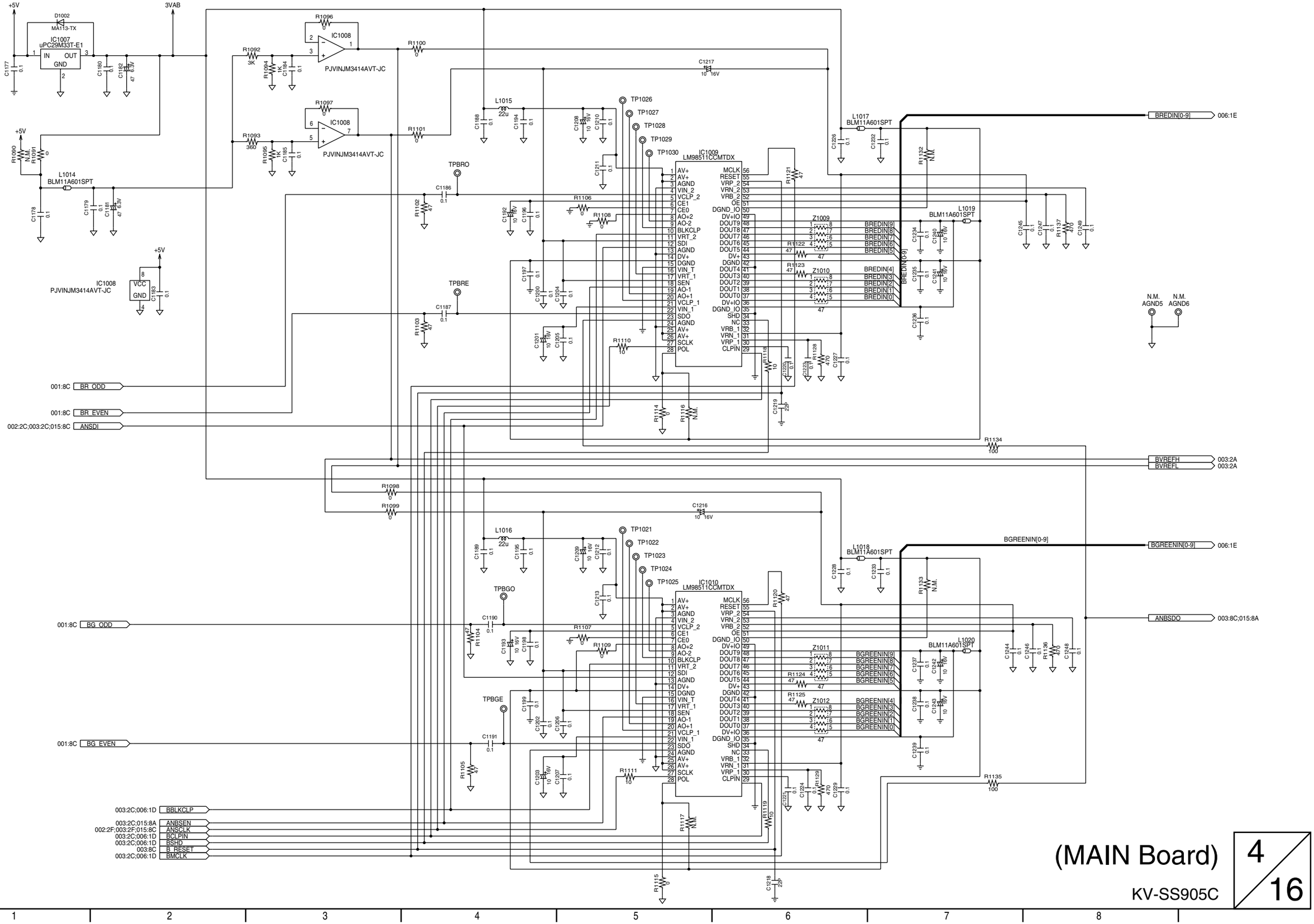

(MAIN Board)

KV-SS905C

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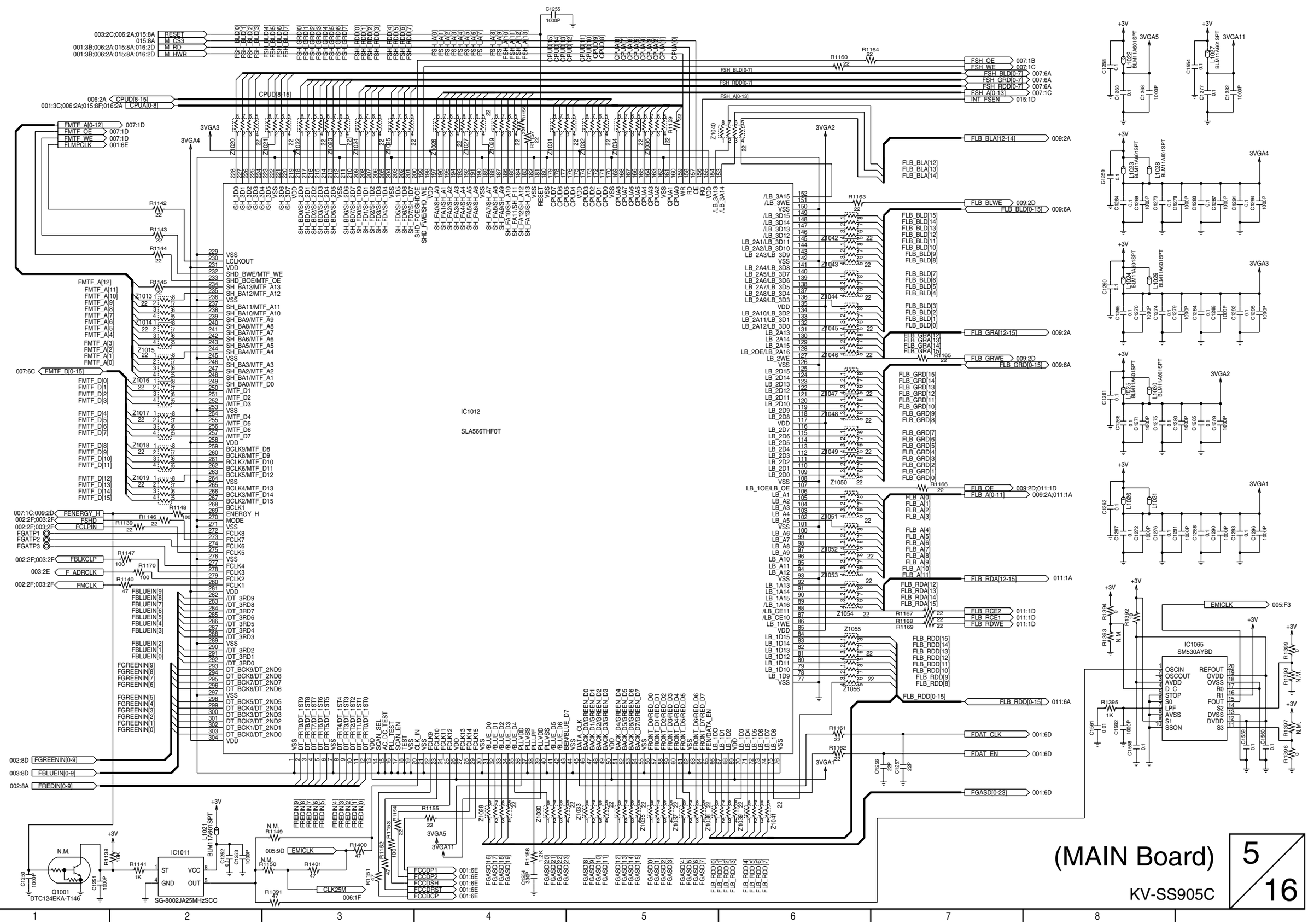
IC1012
SLA566THF0T
IC1065
SM530AYBD
IC1011
SG-8002JA25MHzSCC
Q1001
DTC124EKA-T146
(MAIN Board)
KV-SS905C
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IC1013

SLA566THF0T

003:2C;005:2A;015:8A	RESET
015:8A	M_CS4
001:3B;005:2A;015:8A;016:2D	M_RD
001:3B;005:2A;015:8A;016:2D	M_HWR
005:2A	CPUD[8-15]
001:3C;005:2A;015:8F;016:2A	CPUA[0-8]
BMTF_A[0-12]	008:1D
BMTF_OE	008:1D
BMTF_WE	008:1D
BLMPCLK	001:6B
008:6C	BMTF_D[0-15]
008:1C;010:2D	BENERGY_H
003:2C;004:2F	BSHD
003:2C;004:2F	BCLPIN
BGATP1	
BGATP3	
BGATP2	
003:2C;004:2F	BBLKCLP
003:2C	B_ADRCLK
003:2C;004:2F	BMCLK
004:8D	BGREENIN[0-9]
004:8A	BREDIN[0-9]
003:8A	BBLUEIN[0-9]
005:3F	CLK25M

BSH_OE	008:1B
BSH_WE	008:1C
BSH_RDD[0-7]	008:6A
BSH_GRD[0-7]	008:6A
BSH_BLD[0-7]	008:6A
BSH_A[0-13]	008:1C
INT_BSEN	015:1D
BLB_RDA[12-14]	010:2A
BLB_RDWE	010:2D
BLB_RDD[0-15]	010:6A
BLB_GRA[12-15]	010:2A
BLB_GRWE	010:2D
BLB_GRD[0-15]	010:6A
BLB_OE	010:2D;012:1D
BLB_A[0-11]	010:2A;012:1A
BLB_BLA[12-15]	012:1A
BLB_BCE2	012:1D
BLB_BCE1	012:1D
BLB_BLWE	012:1D
BLB_BLD[0-15]	012:6A
BDAT_CLK	001:3D
BDAT_EN	001:3D
BGASD[0-23]	001:3D;001:6B
BCCDP1	001:6B
BCCDP2	001:6B
BCCDSH	001:6B
BCCDRST	001:6B
BCCDCP	001:6B

(MAIN Board)

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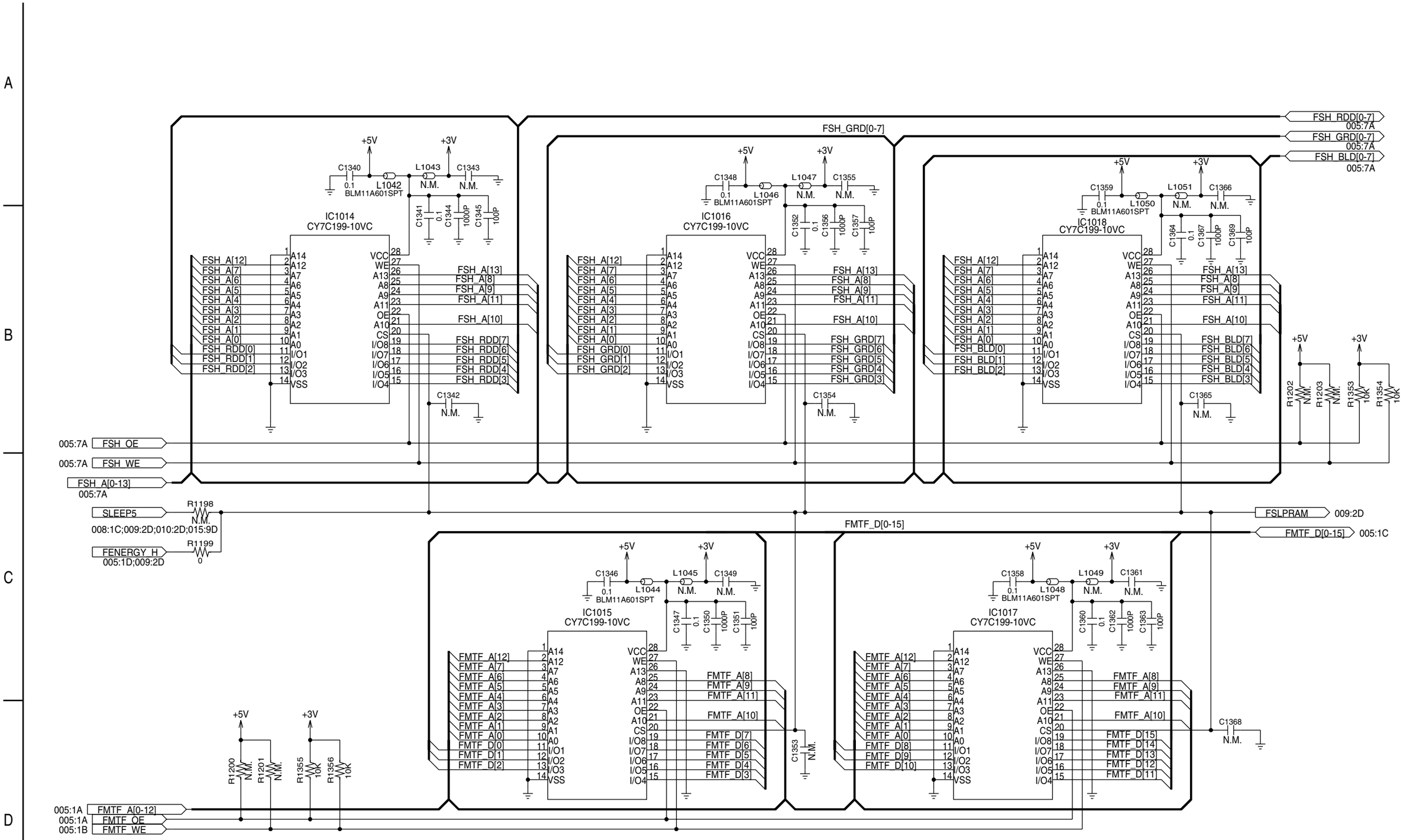

(MAIN Board)

KV-SS905C

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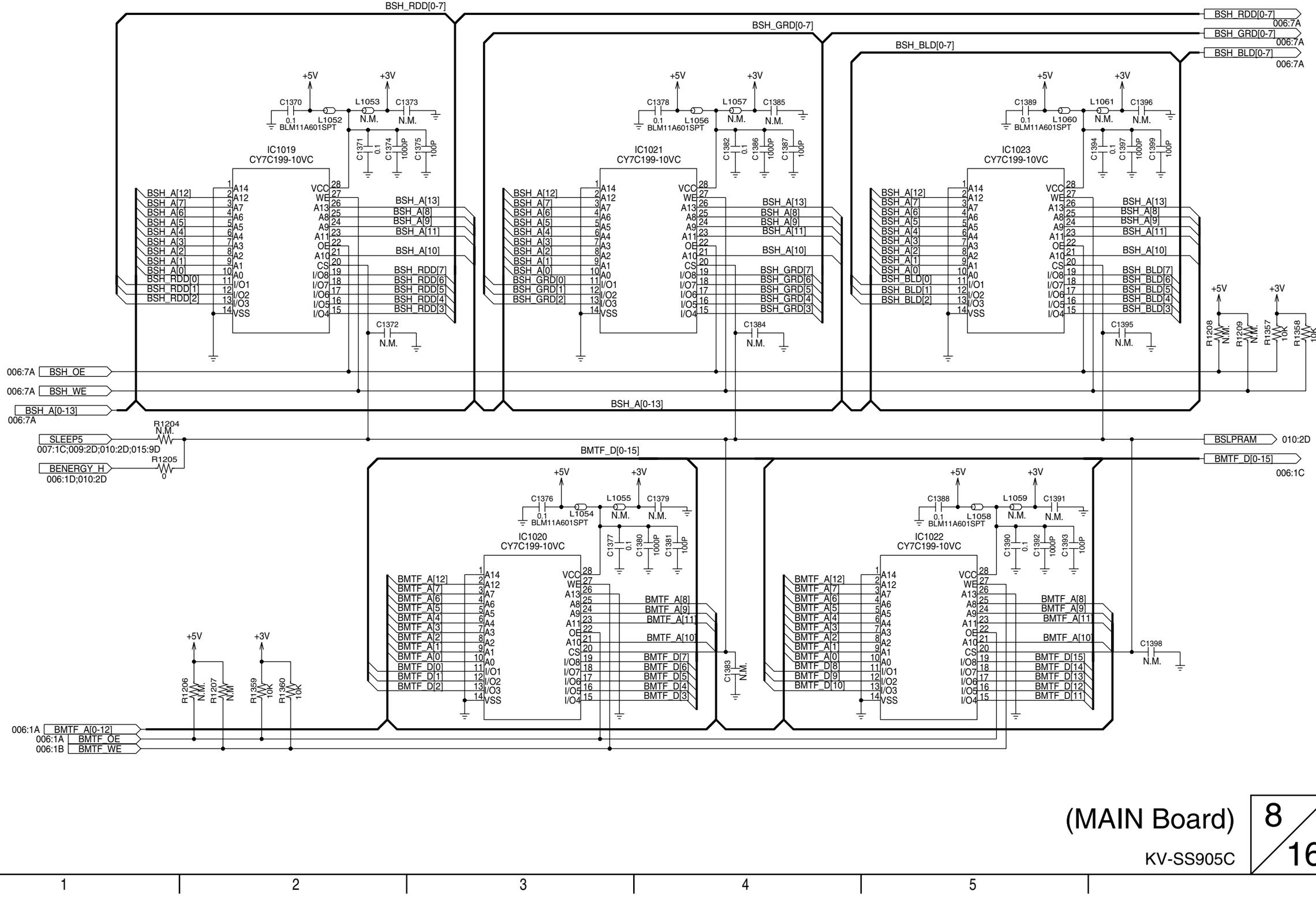

(MAIN Board)

KV-SS905C

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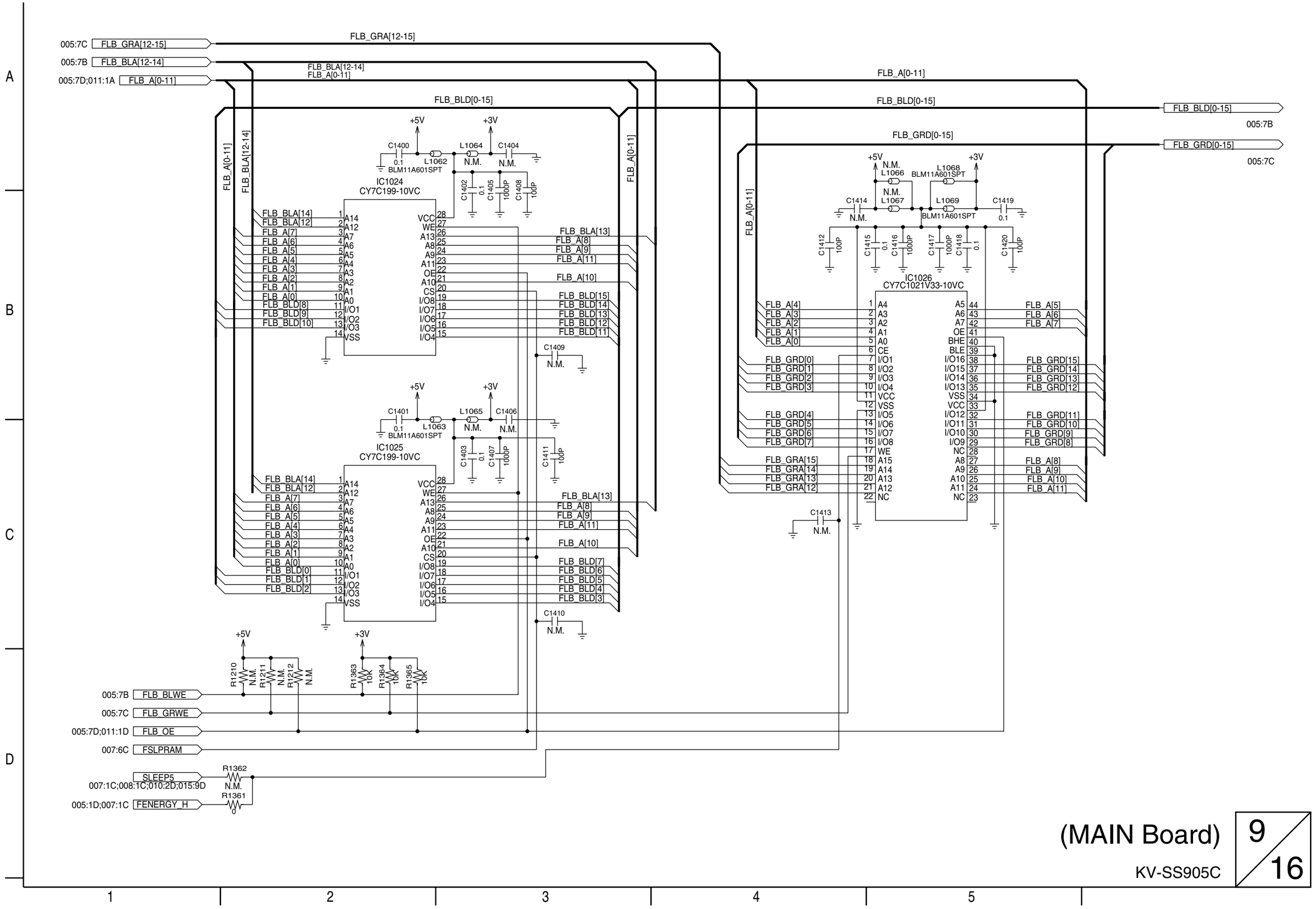

(MAIN Board)

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(MOTHER Board)

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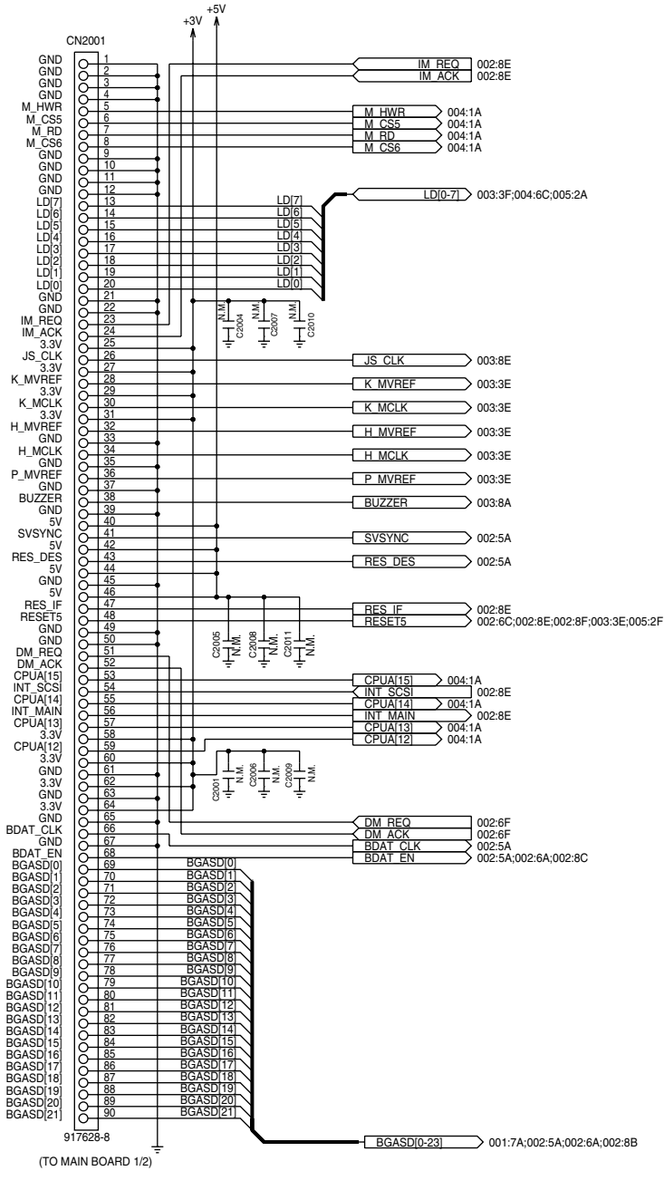

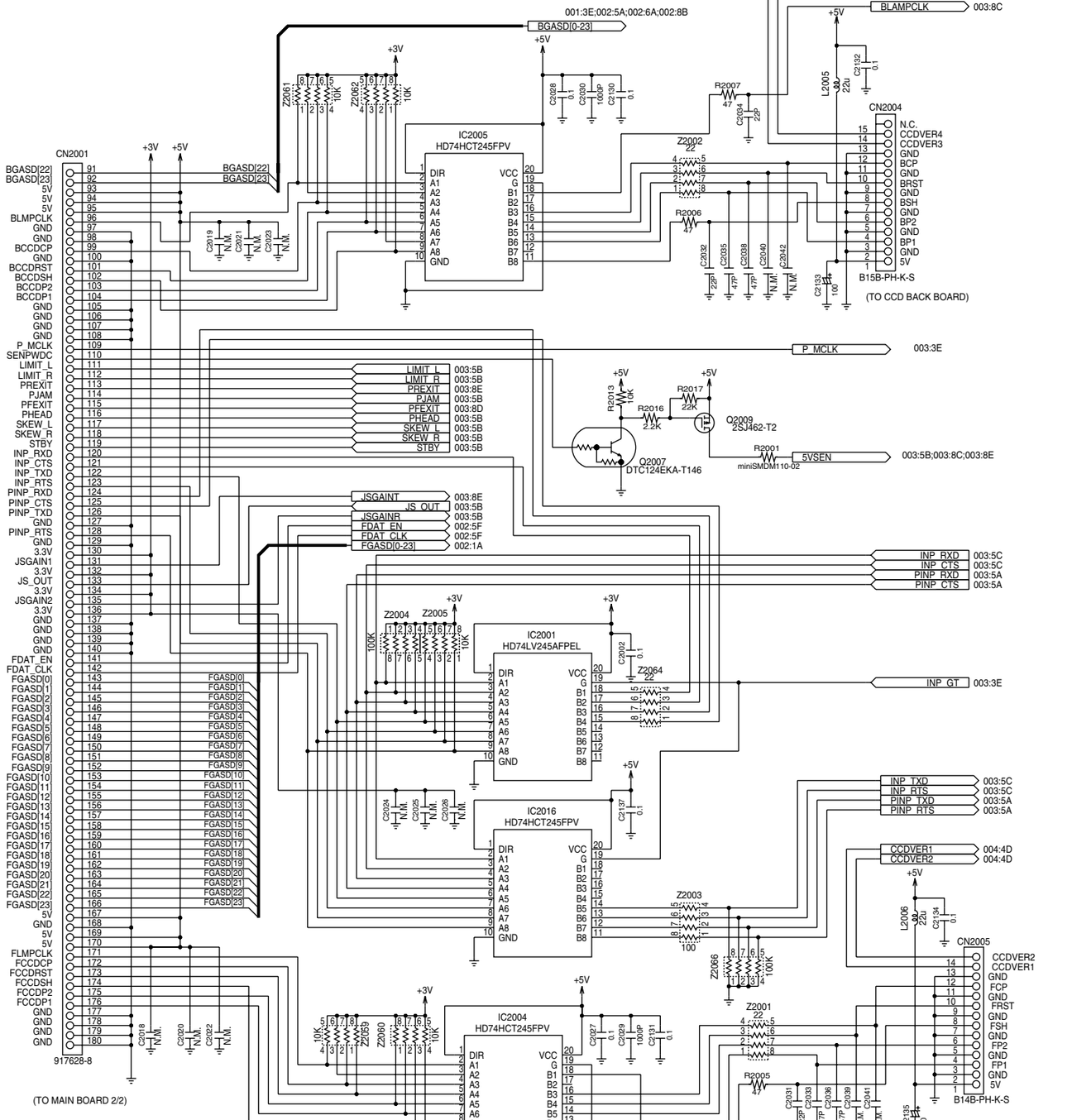

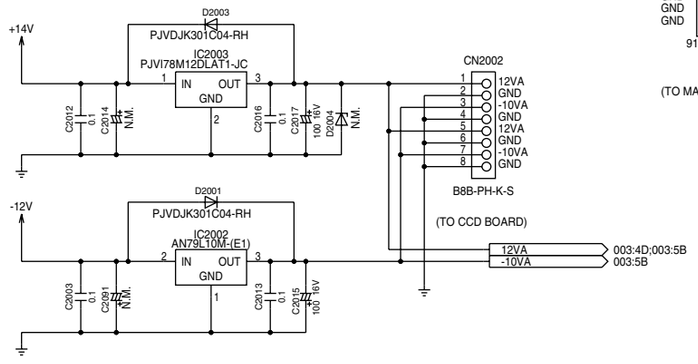

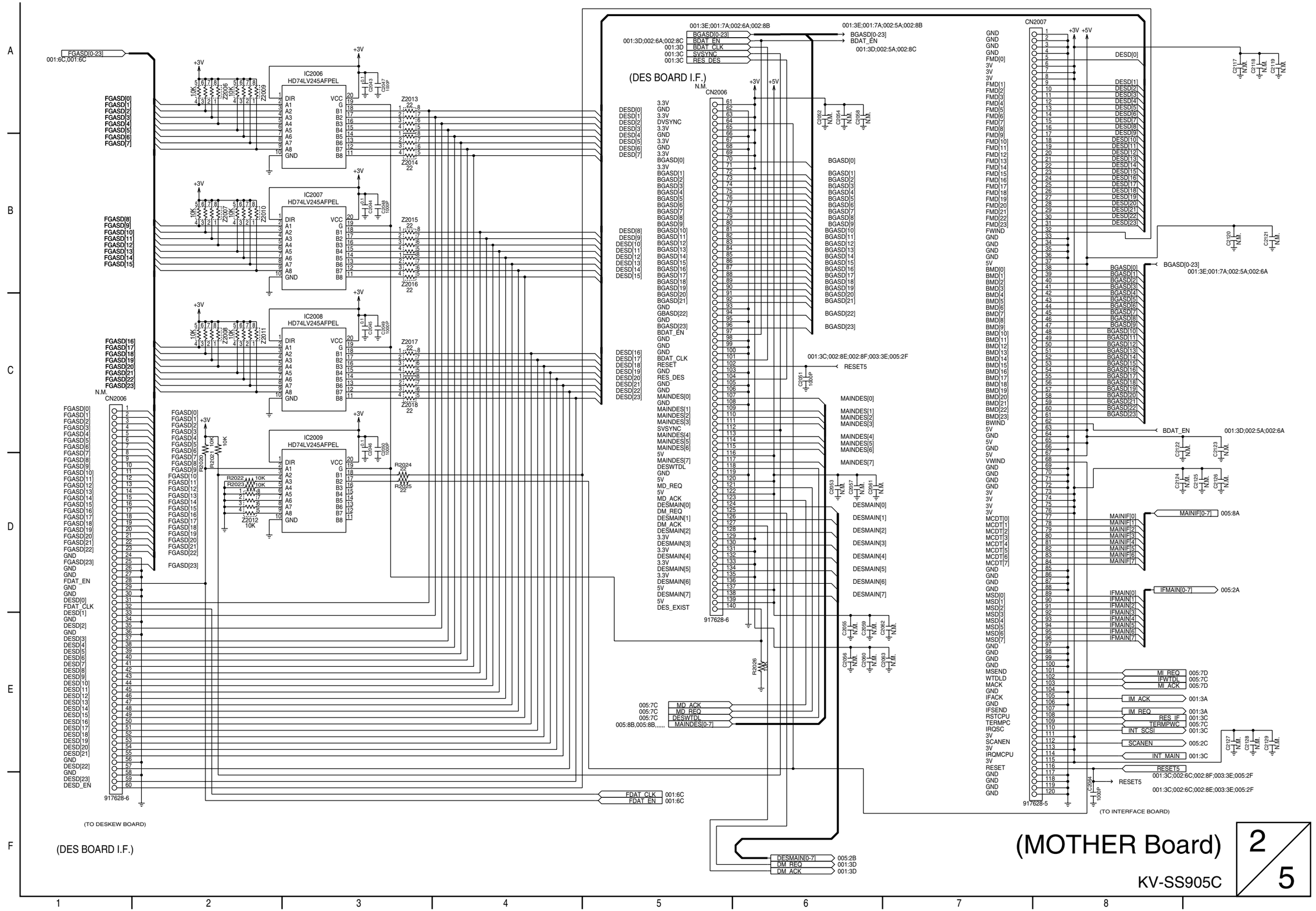
FGASD[0-23]
001:6C,001:6C
IC2006
HD74LV245AFPEL
IC2007
HD74LV245AFPEL
IC2008
HD74LV245AFPEL
IC2009
HD74LV245AFPEL
Z2013
Z2014
Z2015
Z2016
Z2017
Z2018
R2024
R2025
Z2012
(TO DESKEW BOARD)
(DES BOARD I.F.)
001:3E;001:7A;002:6A;002:8B
001:3D;002:6A;002:8C
BGASD[0-23]
BDAT_EN
001:3D
BDAT_CLK
001:3C
SVSYNC
RES_DES
001:3E;001:7A;002:5A;002:8B
001:3E;001:7A;002:5A;002:8B
001:3D;002:5A;002:8C
(DES BOARD I.F.)
N.M.
CN2006
917628-6
001:3C;002:8E;002:8F;003:3E;005:2F
RESET5
MAINDES[0]
MAINDES[1]
MAINDES[2]
MAINDES[3]
MAINDES[4]
MAINDES[5]
MAINDES[6]
MAINDES[7]
DESMAIN[0]
DESMAIN[1]
DESMAIN[2]
DESMAIN[3]
DESMAIN[4]
DESMAIN[5]
DESMAIN[6]
DESMAIN[7]
005:7C MD_ACK
005:7C MD_REQ
005:7C DESWTDL
005:8B,005:8B,,,,,, MAINDES[0-7]
DESMAIN[0-7] 005:2B
DM_REQ 001:3D
DM_ACK 001:3D
FDAT_CLK 001:6C
FDAT_EN 001:6C
CN2007
917628-5
BGASD[0-23]
001:3E;001:7A;002:5A;002:6A
BDAT_EN
001:3D;002:5A;002:6A
MAINIF[0-7] 005:8A
IFMAIN[0-7] 005:2A
MI_REQ 005:7D
IFWTDL 005:7C
MI_ACK 005:7D
IM_ACK 001:3A
IM_REQ 001:3A
RES_IF 001:3C
TERMPWC 005:7C
INT_SCSI 001:3C
SCANEN 005:2C
INT_MAIN 001:3C
RESET5
001:3C;002:6C;002:8F;003:3E;005:2F
RESET5
001:3C;002:6C;002:8E;003:3E;005:2F
(TO INTERFACE BOARD)
(MOTHER Board)
KV-SS905C
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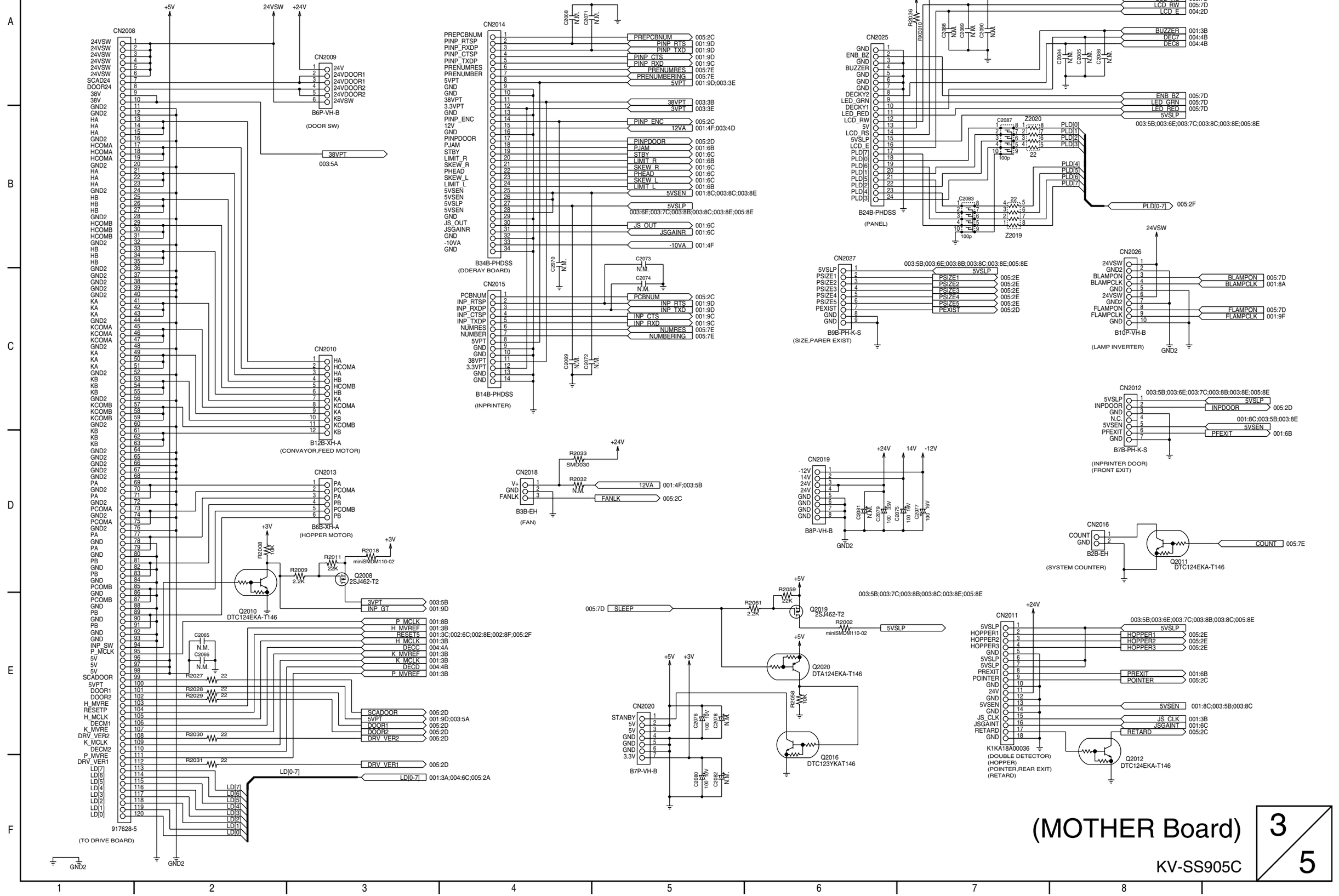
CN2008
CN2009
B6P-VH-B
(DOOR SW)
38VPT
003:5A
CN2010
B12B-XH-A
(CONVAYOR,FEED MOTOR)
CN2013
B6B-XH-A
(HOPPER MOTOR)
917628-5
(TO DRIVE BOARD)
CN2014
B34B-PHDSS
(DDERAY BOARD)
CN2015
B14B-PHDSS
(INPRINTER)
CN2018
B3B-EH
(FAN)
CN2025
B24B-PHDSS
(PANEL)
CN2027
B9B-PH-K-S
(SIZE,PARER EXIST)
CN2026
B10P-VH-B
(LAMP INVERTER)
CN2012
B7B-PH-K-S
(INPRINTER DOOR)
(FRONT EXIT)
CN2019
B8P-VH-B
CN2016
B2B-EH
(SYSTEM COUNTER)
CN2020
B7P-VH-B
CN2011
K1KA18A00036
(DOUBLE DETECTOR)
(HOPPER)
(POINTER,REAR EXIT)
(RETARD)
Q2010 DTC124EKA-T146
Q2008 2SJ462-T2
Q2019 2SJ462-T2
Q2020 DTA124EKA-T146
Q2016 DTC123YKAT146
Q2011 DTC124EKA-T146
Q2012 DTC124EKA-T146
Z2019
Z2020
GND2
(MOTHER Board)
KV-SS905C
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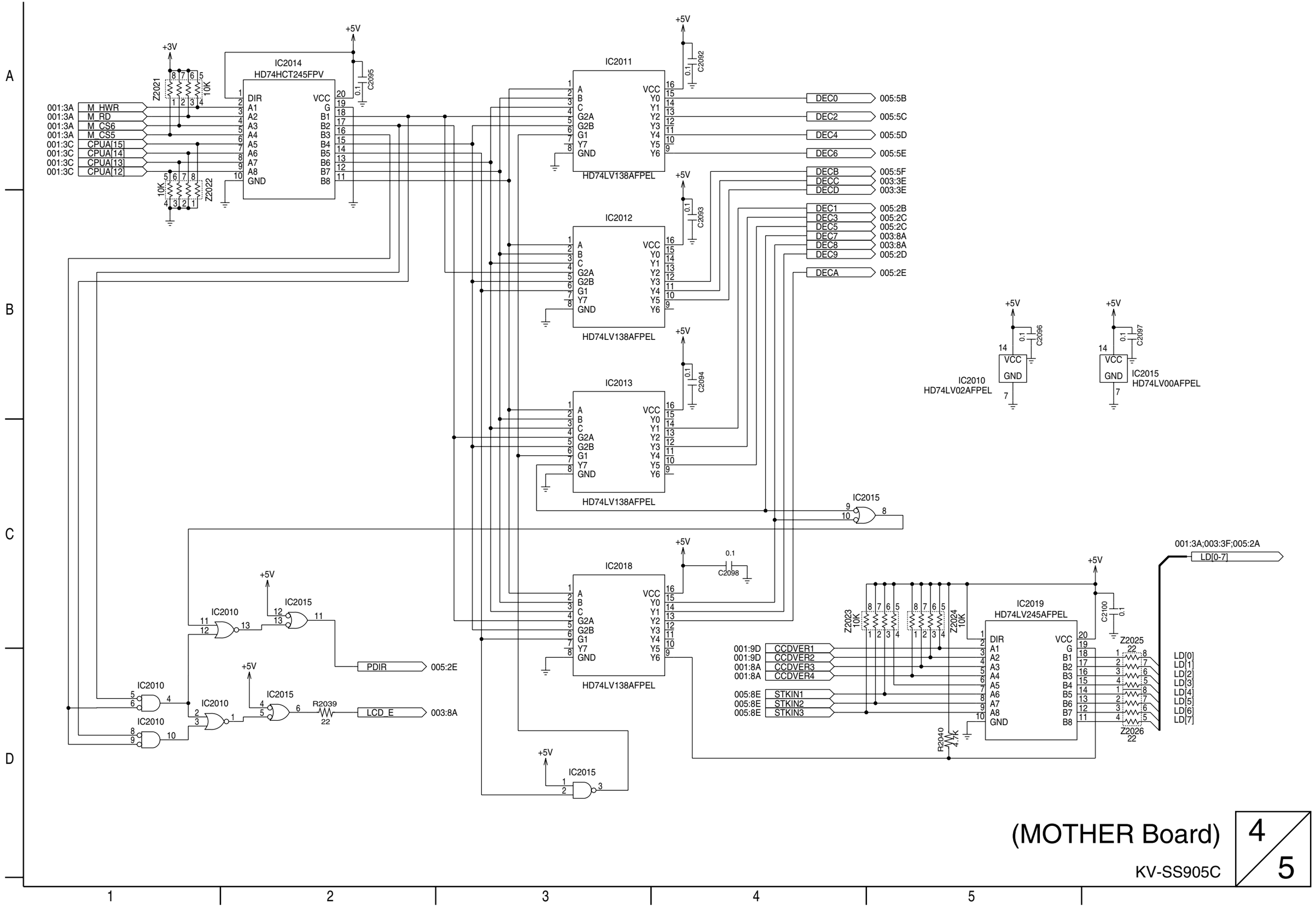
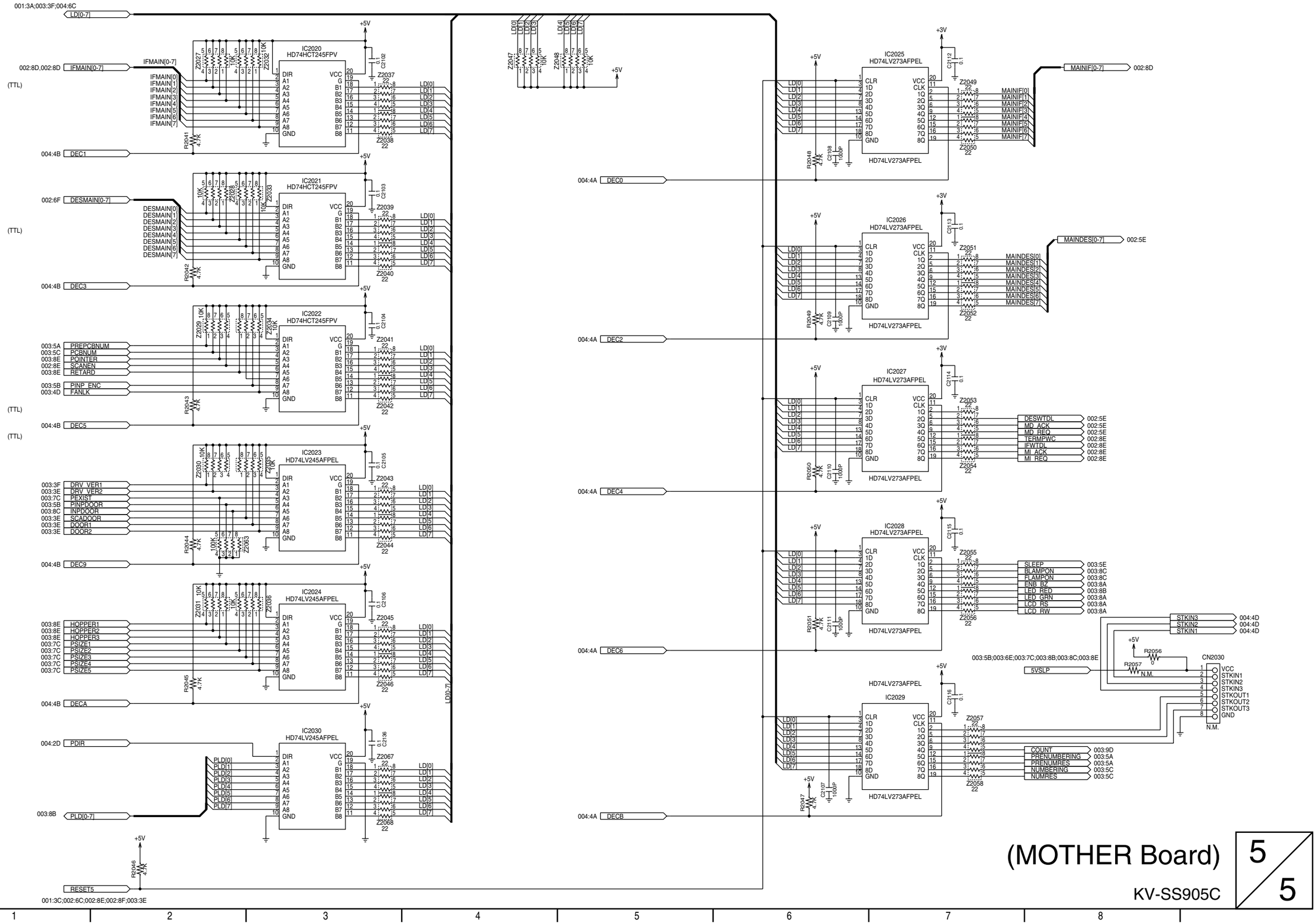


(MOTHER Board)

KV-SS905C



(MOTHER Board)

KV-SS905C

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PANEL Board [PJUPB06S905A-A]

CN1
S24B-PHDSS
to Mother board

IC3
GMD2021BLY
FFC-16HM2B

CN35
LPC-6T4MA#218

IC4
TA7368P

CN2
S3B-XH-A
TO SPK

Q3
2SC3311A-(TA)

IC1
HD74HC245P

IC2
HD74HC245P

Q1
DTC143XSATP

Q2
DTC143XSATP

D1
GL9ED2

(PANEL, SENSOR Boards)

KV-SS905C

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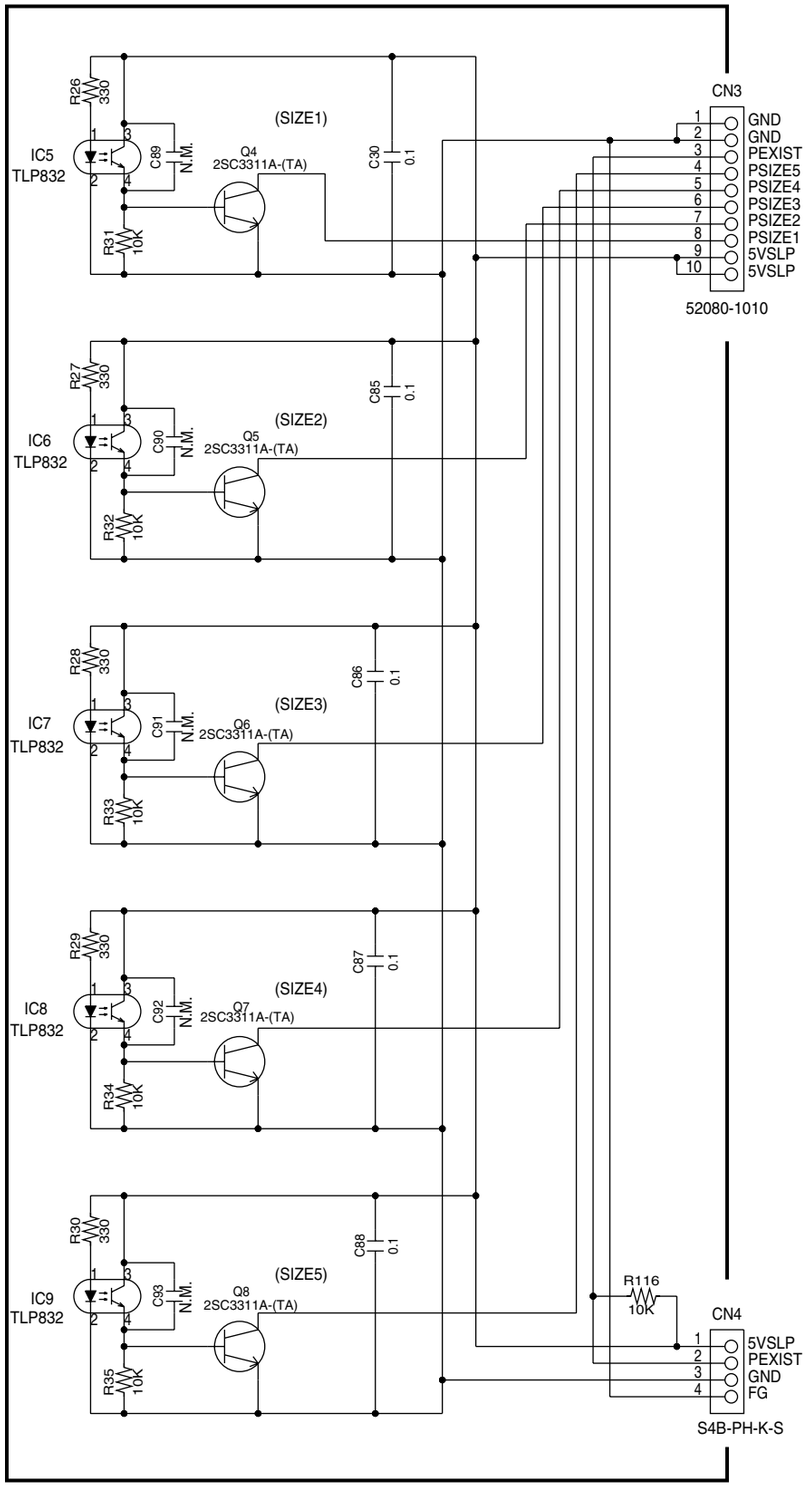
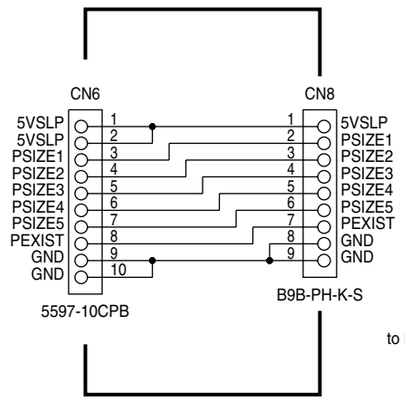
SIZE Board [PJUPB06S905A-B]



to Paper detector

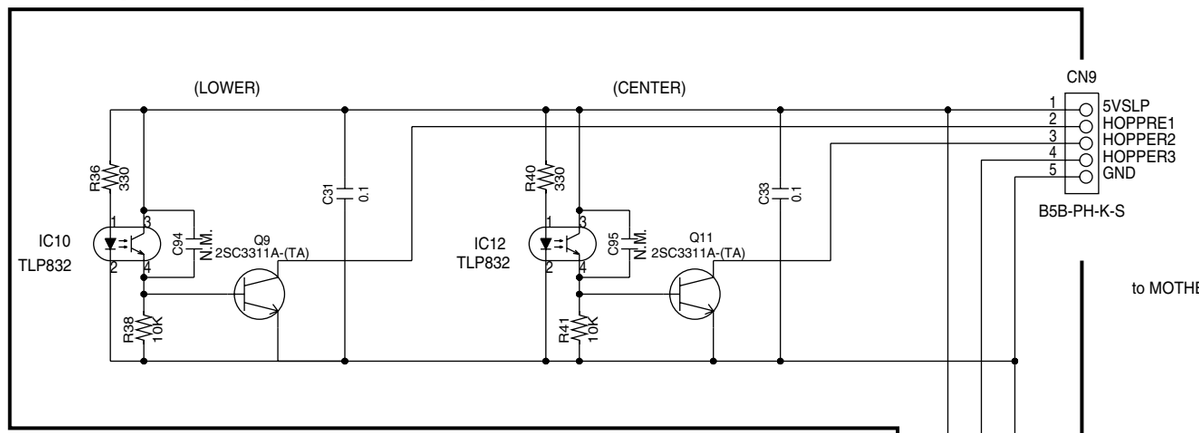
FLEXIBLE CABLE

HOPPER [CONNECTOR] Board [PJUPB06S905A-C]



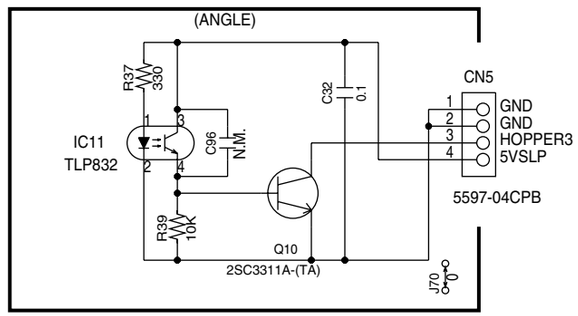
to MOTHER Board

HOPPER [POSITION] Board [PJUPB06S905A-D]

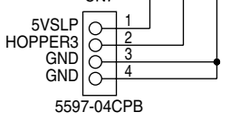


to MOTHER Board

HOPPER [ANGLE] Board [PJUPB06S905A-E]



FLEXIBLE CABLE

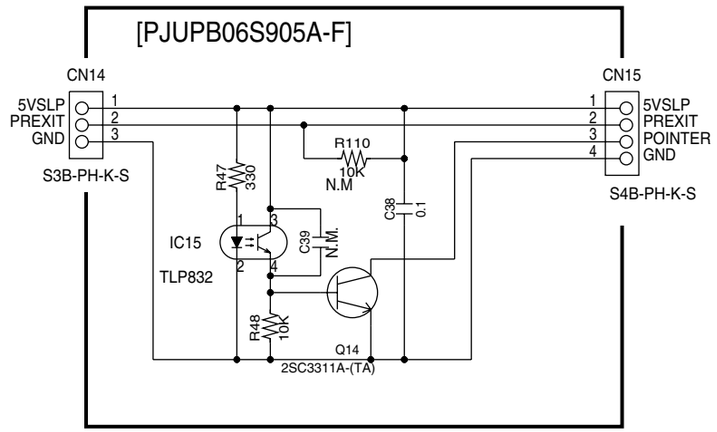


(PANEL, SENSOR Boards)

KV-SS905C

POINTER Board

[PJUPB06S905A-F]

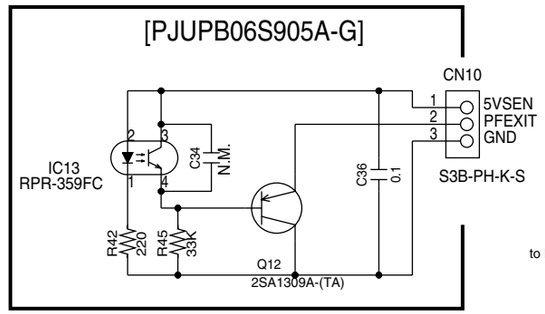


from Ending [rear] position sensor

to MOTHER Board

EXIT [FRONT] Board

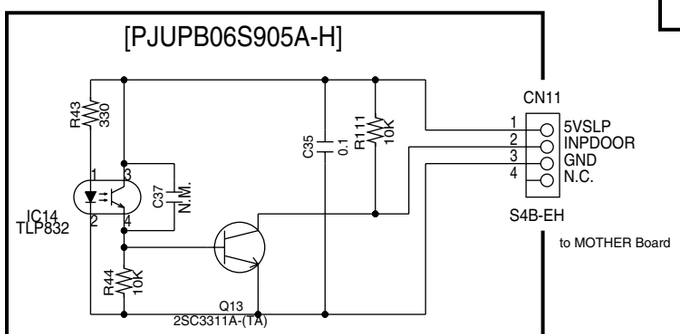
[PJUPB06S905A-G]



to MOTHER Board

POST IMPRINTER DOOR Board

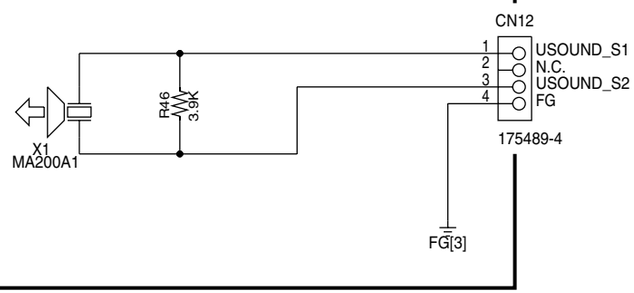
[PJUPB06S905A-H]



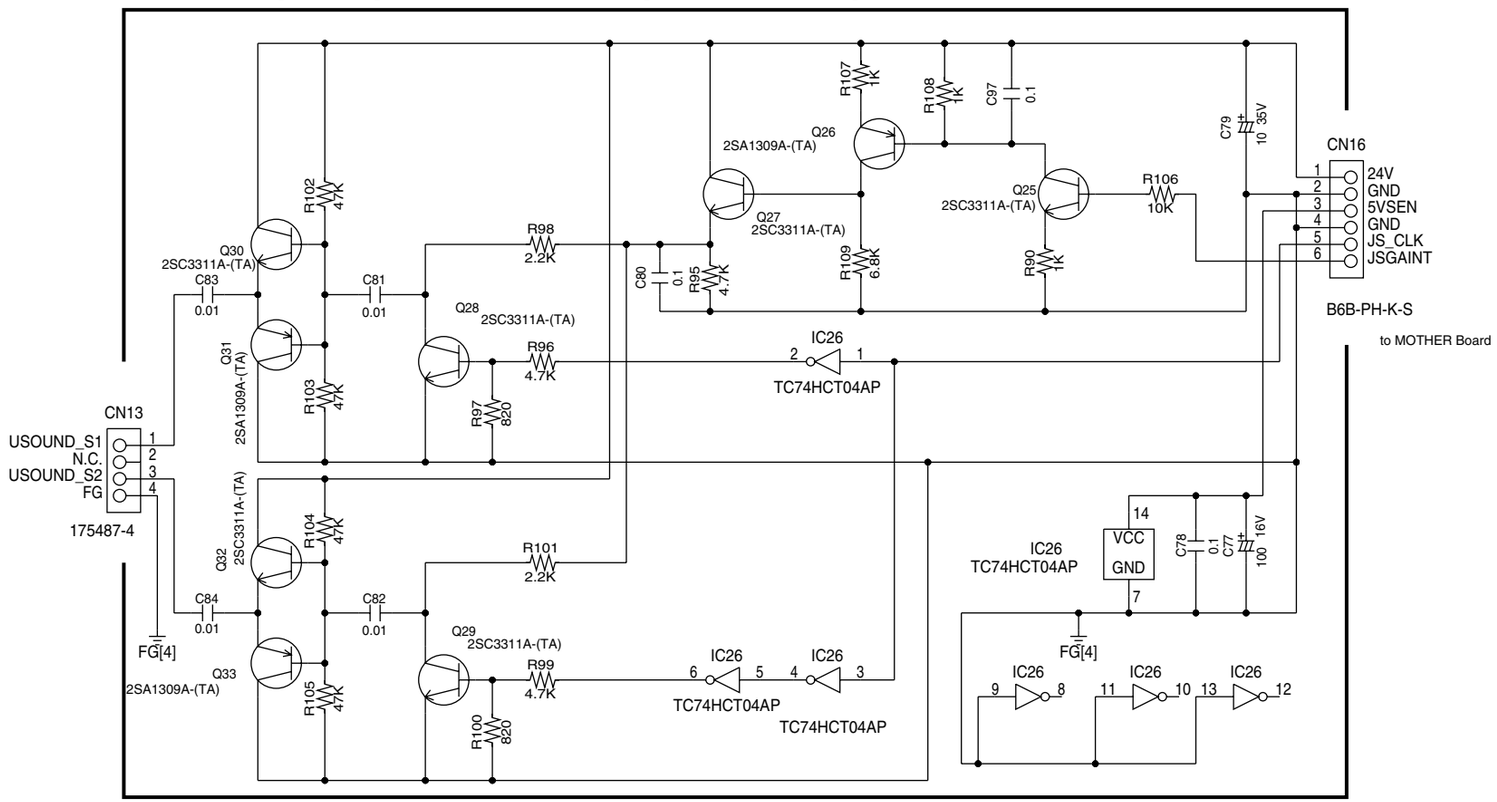
to MOTHER Board

DOUBLE FEED DETECTOR [G] Board

[PJUPB06S905A-I]



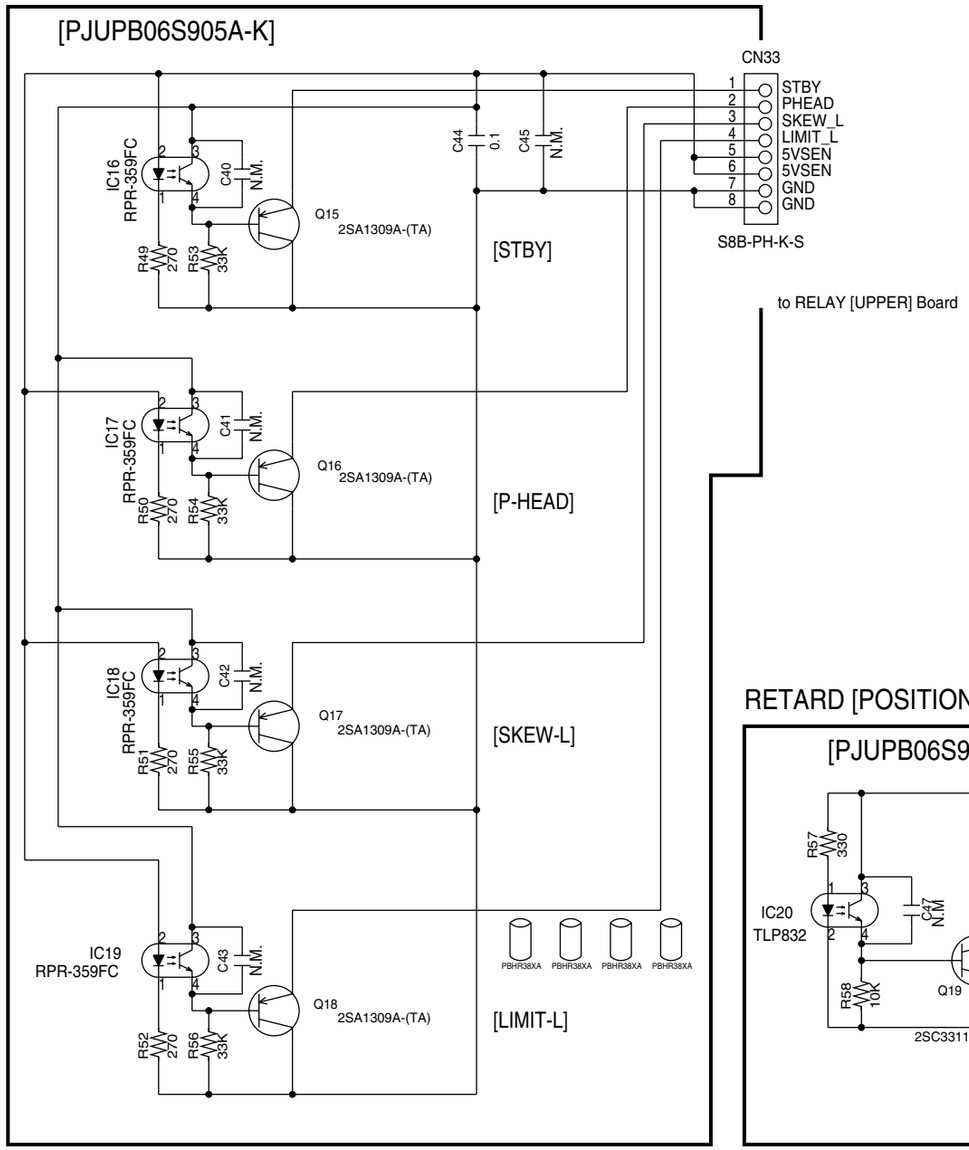
RELAY [LOWER] Board [PJUPB0SS905A-J]



to MOTHER Board

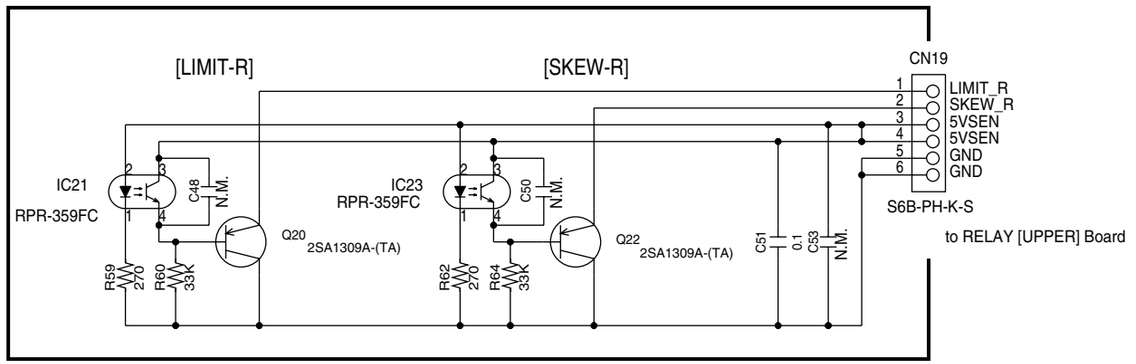
SKEW [L] Board

[PJUPB06S905A-K]



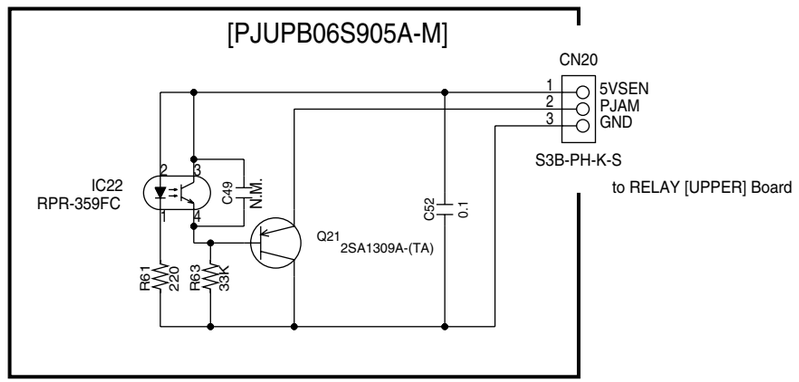
SKEW [R] Board

[PJUPB06S905A-L]



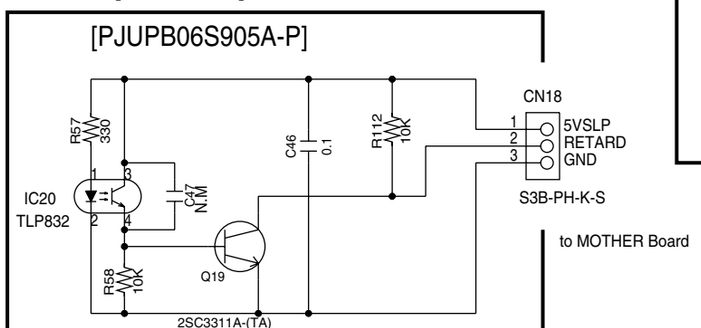
JAM Board

[PJUPB06S905A-M]



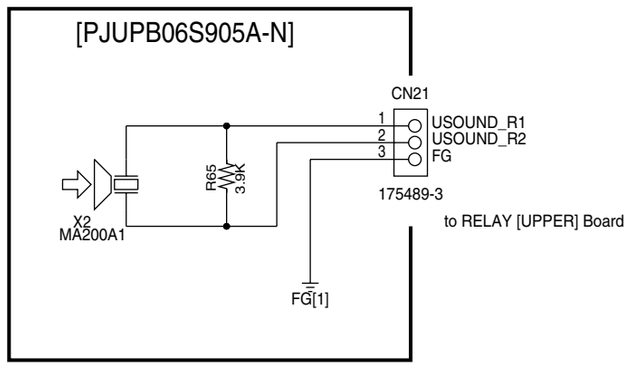
RETARD [POSITION] Board

[PJUPB06S905A-P]



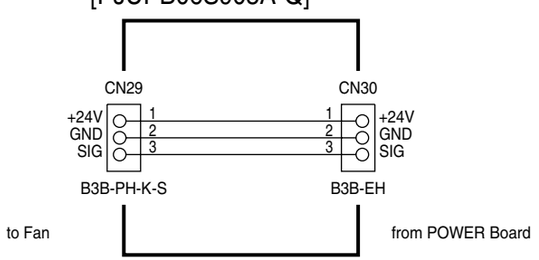
DOUBLE FEED DETECTOR [R] Board

[PJUPB06S905A-N]



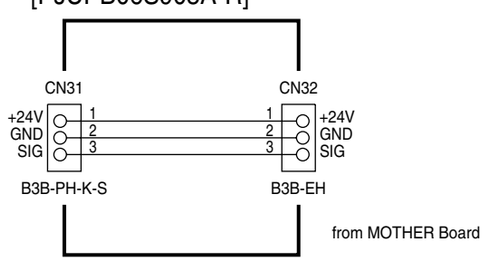
FAN RELAY1 Board

[PJUPB06S905A-Q]



FAN RELAY2 Board

[PJUPB06S905A-R]



(PANEL, SENSOR Boards)

KV-SS905C

RELAY [UPPER] Board [PJUPB06S905A-O]

from Pre imprinter unit

CN23
5VSLP 1
PINPDOOR 2
GND 3
N.C. 4
B4B-PH-K-S

from PRE IMPRINTER DOOR Board

CN24
5VSEN 1
PJAM 2
GND 3
B3B-PH-K-S

from PAPER JAM SENSOR Board

CN28
LIMIT_R 1
SKEW_R 2
5VSEN 3
5VSEN 4
GND 5
GND 6
STBY 7
PHEAD 8
SKEW_L 9
LIMIT_L 10
5VSEN 11
5VSEN 12
GND 13
GND 14
B14B-PHDSS

J5 J6 J7
FG[2]

from SKEW [R] SENSOR Board

to DOUBLE FEED DETECTOR [RECIEVE] Board

CN26
USOUND_R1 1
USOUND_R2 2
FG 3
175487-3

C54 0.01
R113 100
R66 N.M.
R67 100K
FG[2]

+12V
C59 0.1
R71 N.M.
R69 N.M.
IC24
VOS_ADJUST 1
VOS_ADJUST 2
INV 3
NI 4
V- 5
V+ 8
VOUT 7
N.C. 6
LM6365N
R72 100K
R70 100
C57 0.1
C56 0.01
-10V

+12V
R78 100K
R76 47K
R80 47K
C63 0.1
R79 100K
C60 0.01
IC25 NJM2082D
R77 100K
D2 MA165-(TA5)
R117 0
R75 12K
TH1 103AT-2
C62 0.01

+12V
C65 0.1
8 VCC
GND
4
IC25 NJM2082D
C64 0.01
IC25 NJM2082D
R82 15K
D3 MA165-(TA5)
R81 1K
C66 0.01

+12V
C67 0.1
C68 100 16V
C69 0.01
R83 10K

+5VA
C70 0.1
C71 100 16V
Q23 2SA1309A-(TA)
R84 1K
D4 MA165-(TA5)
R85 3.9K
Q24 2SC3311A-(TA)
C72 0.01
C74 N.M
R86 750
R87 1.5K
C76 0.01

-10V
C73 0.1
C75 100 16V

+12V
CN27
1 12V
2 GND
3 PINPDOOR
4 PJAM
5 STBY
6 LIMIT_R
7 SKEW_R
8 PHEAD
9 SKEW_L
10 LIMIT_L
11 5VSEN
12 5VSEN
13 5VSLP
14 5VSEN
15 GND
16 JS_OUT
N.C. 17 JSGAINR
18 GND
19 -10V
20 GND
B20B-PHDSS

to MOTHER Board

J8 FG[2]
J9 FG[2]
J10 FG[2]

(PANEL, SENSOR Boards)

KV-SS905C

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